SONY

CAMERA ADAPTOR

CA-702
CA-702P

BETACAM SX

MAINTENANCE MANUAL

1st Edition (Revised 2)

Serial No. 10001 and Higher: CA-702

Serial No. 40001 and Higher: CA-702P

⚠警告

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⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for Camera Adaptor CA-702/702P.

This manual describes the information items necessary when the unit is supplied and installed, items that premise the service based on the components parts such as alignment, schematic diagrams, board layouts and spare parts lists, assuming use of system and service engineers.

Contents

The followings are summaries of the each section for understanding the manual.

Section 1 Service Overview
Describes information about connection and how to replace the main parts.

Section 2 Electrical Alignment
Describes electrical adjustment.

Section 3 Spare Parts
Describes parts list, exploded views, packing materials and supplied accessories list used in the unit.

Section 4 Semiconductor Pin Assignments
Describes function diagrams and pin names of semiconductor used in the unit.

Section 5 Block Diagrams
Describes overall block diagram and the block diagrams for every circuit board.

Section 6 Schematic Diagrams and Frame Wiring
Describes frame wiring and schematic diagrams for every circuit.

Section 7 Board Layouts
Describes board layouts for every circuit.

Relative manual

Besides this maintenance manual, the following manual is available for this unit.

- **Operation Manual (Supplied with this unit)**
  This manual is necessary for application and operation of this unit.

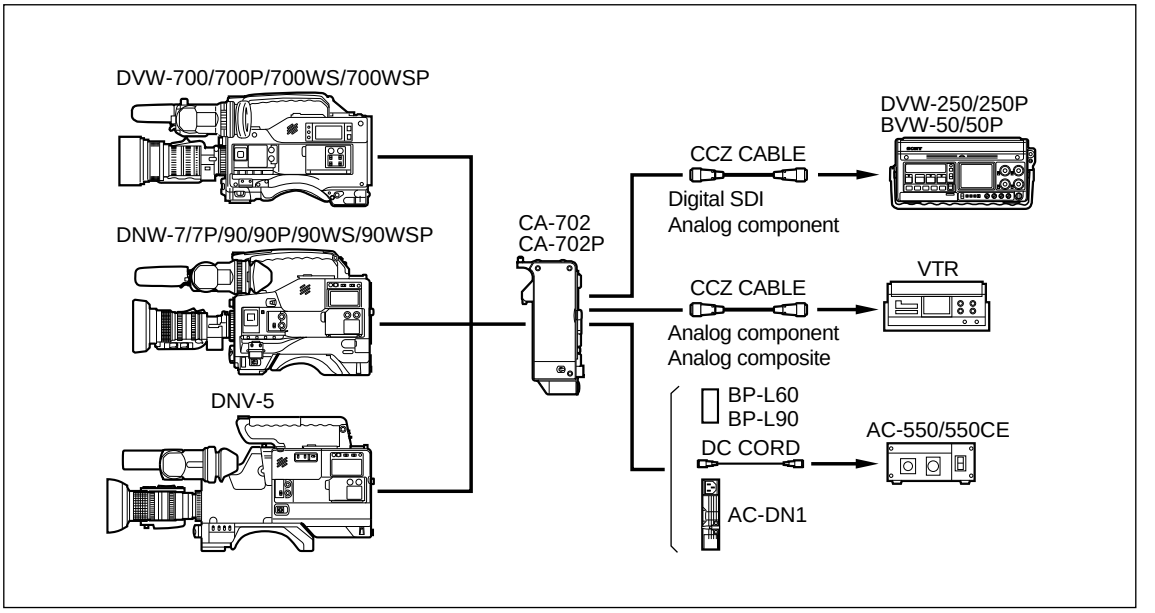
Section 1
Service Overview

1-1. Notes on System Connection

When the CA-702 is to be connected to the DVW-700/700WS/700P/700WSP or DNW-7/90/90WS/7P/90P/90WSP, be sure to check the ROMs version. If the ROM(s) version is not adequate, ROM replacement is required. Please consult your Sony service representative.The function of CA-702/702P may be restricted depending on an equipment connected to the CA-702/702P. For details, refer to the operation manual “Operation Modes” supplied with the CA-702/702P.

Check item	Condition	Measures	Applicable serial No.
AT-84 board in the DVW-700/700WS /700P/700WSP	ROM(IC16) version is V2.10 or higher	ROM replacement (P/N:8-759-390-05)	Serial No.10001 through 10196 (DVW-700)
SY-191 board in the DVW-700/700WS /700P/700WSP	ROM(IC1) version is V1.10 or higher	IC replacement (QFP type P/N:8-759-388-93) (EPROM type P/N:8-759-398-40)	Serial No.90001 through 90015 (DVW-700) Serial No.40001 through 40310 (DVW-700P) Serial No.90022 through 90037 (DVW-700P) Serial No.10001 through 10135 (DVW-700WS) Serial No.90001 to 90002 (DVW-700WS) Serial No.40001 through 40555 (DNW-700WSP)
DNW-7	Serial No.11001 and higher	——	——
DNW-7P	Serial No.41001 and higher	——	——
DNW-90	Serial No.11001 and higher	——	——
DNW-90P	Serial No.41001 and higher	——	——
DNW-90WS	Serial No.11001 and higher	——	——
DNW-90WSP	Serial No.41001 and higher	——	——

1-2. System Configuration



1-3. Connecting Connectors and Cables

When external cables are connected to the connector of this unit, the hardware listed below (or the equivalents) must be used.

Panel indication	Matching connector(cable)	Sony part No.
VIDEO SDI IN, OUT	BNC	1-569-370-12
DC IN	XLR 4P, FEMALE	1-508-362-00
DC OUT 12 V	ROUND TYPE 4P, MALE	1-566-425-11
VTR	Plug 26P, FEMALE or CCZ cable assembly(option) CCZ-2(2 m)/CCZ-10(10 m)	1-564-184-00

1-4. Signal Inputs and Outputs

Input

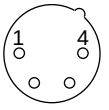
VIDEO IN
ANALOG: 75 Ω, 1.0 V p-p
DIGITAL: 75 Ω, 0.8 V p-p, 270 Mbps

Output

HEADPHONE OUT 8 Ω load, −26 dBu
VIDEO OUT
ANALOG: 75 Ω terminated, 1.0 V p-p
DIGITAL: 75 Ω terminated, 0.8 V p-p, 270 Mbps

DC IN: XLR 4-pin (male)

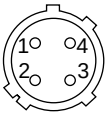
<External view>



Pin No.	Signal
1	UNREG GND
2	——
3	——
4	EXT DC (+) 12 V (10.5-17 V)

DC OUT: XLR 4-pin (female)

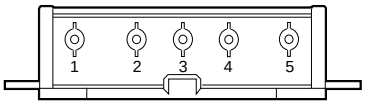
<External view>



Pin No.	Signal
1	UNREG GND
2	——
3	——
4	DC OUT

BATT IN: 5-pin (male)

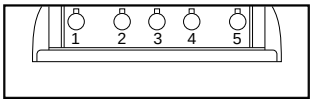
<External view>



Pin No.	Signal
1	BATT IN(−)
2	UNREG GND
3	BATT REM
4	LIGHT CONT
5	BATT IN(+)

BATT OUT: 5-pin (female)

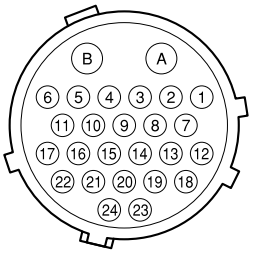
<External view>



Pin No.	Signal
1	BATT OUT(−)
2	UNREG GND
3	BATT REM
4	LIGHT CONT
5	BATT OUT(+)

VTR: 26-pin (male)

<External view>



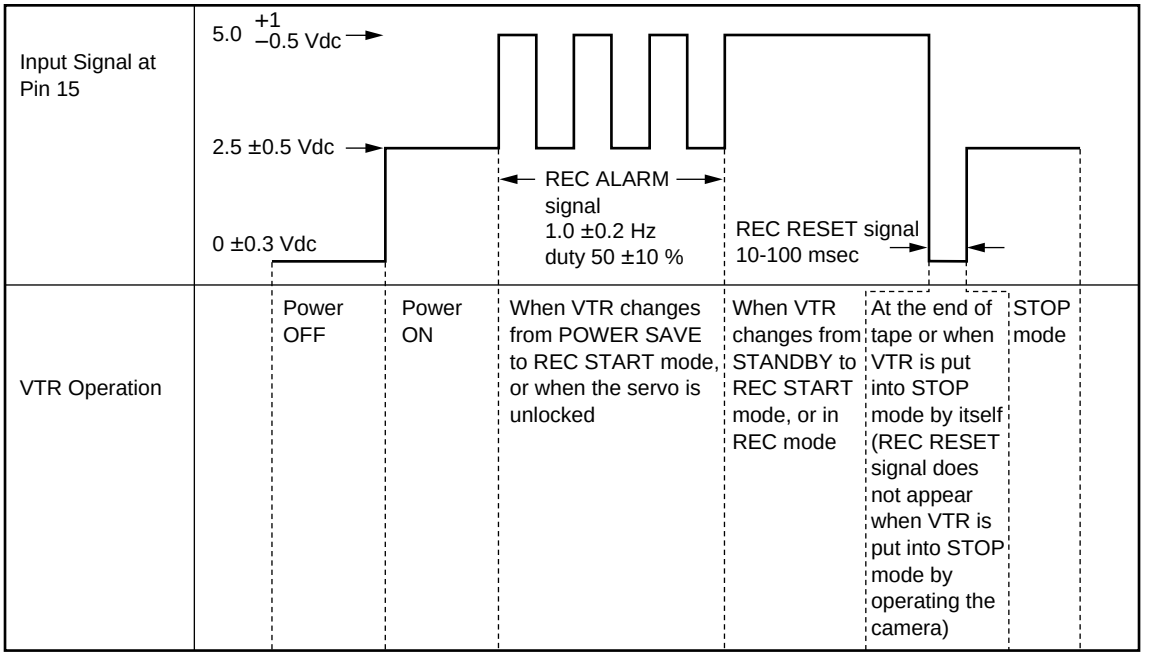
∗1: In connection with analog VTR
∗2: In connection with digital VTR

No.	Signal	Specifications
A	POWER(+) IN	No connection
B	POWER(–) IN	
1	VBS ∗1/SDI ∗2 OUT (X)	VBS 1.0 Vp-p, Zo = 75 Ω
2	VBS ∗1/SDI ∗2 OUT (G)	SDI 0.8 Vp-p ±10%, Zo = 75 Ω
3	Y VIDEO OUT(G)	VS 1.0 Vp-p, Zo = 75 Ω
4	Y VIDEO OUT(X)	
5	R-Y VIDEO OUT(X)	Zo = 75 Ω
6	R-Y VIDEO OUT(G)	700 mVp-p (CA-702)
7	B-Y VIDEO OUT(X)	525 mVp-p (CA-702P)
8	B-Y VIDEO OUT(G)	
9	MIC OUT(X)	Zo ≦ 600 Ω,
10	MIC OUT(Y)	–60 dBu balanced
11	MIC OUT(G)	
12	VTR START/$\overline{\text{STOP}}$ OUT	START: 5 ±1 Vdc, STOP: 0 $^{+0.2}_{-0.1}$ Vdc, Zo ≦ 10 kΩ

No.	Signal	Specifications
13	BATT IND IN	No connection
14	COMPOSITE/SDI SELECT IN	OPEN: COMPOSITE GND: SDI
15	REC ALARM IN	Zi ≧ 20 kΩ ∗Note
16	NC	No connection
17	GND (SHIELD)	Camera GND
18	PB VIDEO IN (X)	VS 1 Vp-p, Zi = 75 Ω
19	PB VIDEO IN (G)	
20	AUDIO MONITOR IN/ VTR SAVE OUT	SAVE: +4.5 ±0.5 V, STANDBY: +9.0 $^{+1}_{-0.5}$V), Zo ≦ 10 kΩ MONITOR: Zi = 750 Ω
21	NC	No connection
22	CF OUT	Color Framing
23	NC	No connection
24	NC	No connection

(0 dBu = 0.775 Vrms)

Note : Specifications of REC ALARM Signal

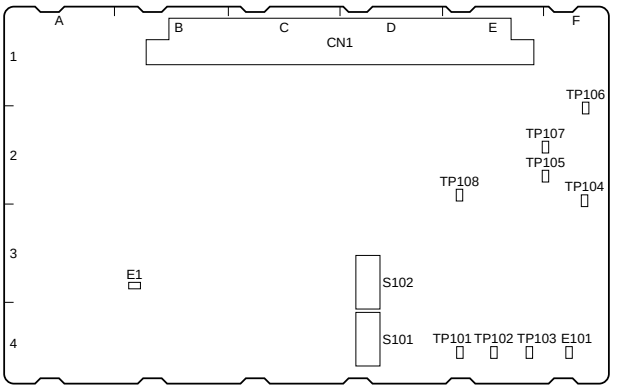

Input Signal at Pin 15
5.0 +1 −0.5 Vdc
2.5 ±0.5 Vdc
0 ±0.3 Vdc
REC ALARM signal
1.0 ±0.2 Hz
duty 50 ±10 %
REC RESET signal
10-100 msec
VTR Operation
Power OFF
Power ON
When VTR changes from POWER SAVE to REC START mode, or when the servo is unlocked
When VTR changes from STANDBY to REC START mode, or in REC mode
At the end of tape or when VTR is put into STOP mode by itself (REC RESET signal does not appear when VTR is put into STOP mode by operating the camera)
STOP mode

1-5. Setting of Switches on Board

CAUTION

For the factory-use switch, do not change the factory setting.

RE-153 board



RE-153 BOARD (A SIDE)

Note

To validate the setting, turn on the power of CA-702/P again.

S101-1 (Digital CCZ Disable)

ON: A VBS signal is output to the VBS line of a CCZ connector even if the portable VTR compatible with digital CCZ is connected.

OFF: An SDI signal is output to the VBS line of a CCZ connector when the portable VTR compatible with digital CCZ is connected.

Factory setting: OFF

S101-2 (Audio Select 1)

ON: The audio signal of a camcorder is selected in both 1/2 and 3/4 channels during SDI pool feeding.

OFF: The audio (40P audio) signal from CA is selected in both 1/2 and 3/4 channels during SDI pool feeding.

Factory setting: OFF

S101-3 (Audio Select 2)

ON: During SDI pool feeding, the 1/2 channel of a camcorder is selected for a 1/2 channel, and the 1/2 channel of a 40P audio signal is selected for a 3/4 channel.

OFF: Confirms to the Audio Select 1 setting.

Factory setting: OFF

S101-4 (VTR START SW Enable)

OH: The VTR START switch functions equally with the REC switch of a camcorder in the output mode.

OFF: The VTR START switch does not completely function in the output mode.

Factory setting: ON

S101-5 (VTR START SW Disable)

ON: The VTR START switch does not completely function in any modes.

OFF: The VTR START switch functions equally with the REC switch of a camcorder in the input mode.

Factory setting: OFF

S101-6 (RET SW Disable)
ON: The RET switch does not completely function in any modes.
OFF: The RET switch functions as a 40P RETURN signal in the CCZ mode and functions equally with a lens RET signal in the input mode.
Factory setting: OFF

S101-7 (VBS POOL FEED Input Select)
ON: If a CCZ connector is connected when the COMPOSITE/SDI terminal is set to COMPOSITE in the input mode, the VBS pool feed operation is performed with the PB line of a CCZ connector as an input signal. If a CCZ connector is not connected, it is performed with the BNC IN line as an input signal.
OFF: The VBS POOL FEED input signal is fixed to BNC IN.
Factory setting: OFF

S101-8 (Monitor Select)
ON: A CAM image is output to the viewfinder (VF) and TEST OUT/VIDEO OUT terminal during pool feed operation. A POOL FEED signal (input signal from CA) can be monitored on the viewfinder by pressing the RET switch (of CA).
OFF: The normal pool feed operation is performed.
Factory setting: OFF

S102-1 (Forced CCZ output)
ON: A signal is forcibly output to the CCZ connector in the output mode irrespective of the VTR connection or non-connection to CCZ.
OFF: Normal operation
Factory setting: OFF

S102-2 (UC/J mode inversion)
ON: If the camcorder is an UC model, the setting in CA is performed as J. If it is a J model, the setting is performed as UC.
OFF: Normal operation
Factory setting: OFF

S102-3 (Forced Digital CCZ)
ON: An SDI signal is output to the VBS line of a CCZ connector irrespective of whether the VTR connected to a CCZ connector is compatible with digital CCZ.
OFF: Normal operation
Factory setting: OFF

S102-4 (SDI power forced supply)
ON: The power of an SDI circuit is turned on irrespective of the mode used.
OFF: The power is saved when an SDI circuit is not used.
Factory setting: OFF

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S102-5 (Special operation enabled)

ON: The VBS pool feed operation enters the special operation state below when the power is turned on to enter the input mode while pressing the RET and REC switches with the COMPOSITE/SDI terminal set to COMPOSITE.

Operation outline)

This operation is used for recording signals that a camcorder cannot gen-lock. The signal source is externally synchronized by inputting the TEST OUT (or VIDEO OUT) signal from a camcorder.

Operation specifications)

A CAM image is output to the TEST OUT and VIDEO OUT terminals of a camcorder. The VBS signal input from pin 40 can be output to the viewfinder so as to monitor an input signal.

OFF: Not enter the special operation state.

Factory setting: OFF

S102-6: Unused. Factory setting: OFF

S102-7: Unused. Factory setting: OFF

S102-8: Factory use Factory setting: OFF

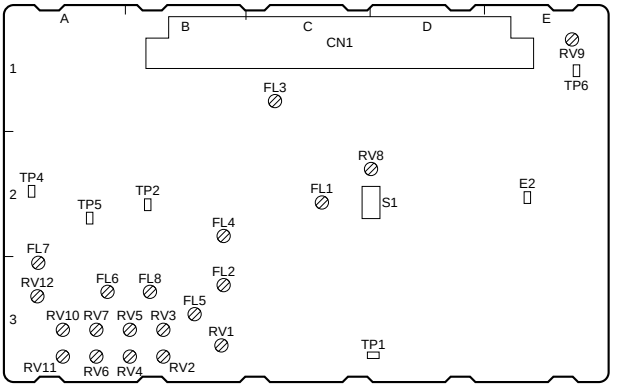
AD-150/P board

S1: AGC

ON: The AGC (automatic gain control) of a Y signal is turned on during VBS pool feeding.

OFF: AGC OFF

Factory setting: ON



AD-150 BOARD (A SIDE)

DIF-67 board

S1-1: TEST ON/OFF

Factory use. Fixed to OFF.

S1-2: MODE

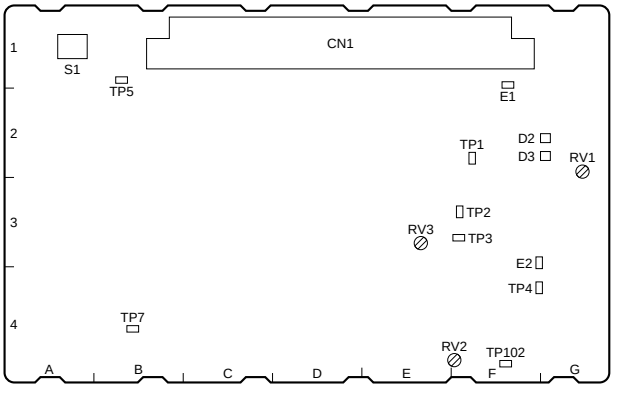
Factory use. Fixed to OFF.

S1-3: ENC VCO ADJ

OFF: Used during normal operation.

ON: The internal VCO of an SDI encoder (CXD1341R) is set to the free-running state.

Factory setting: OFF



DIF-67 BOARD (A SIDE)

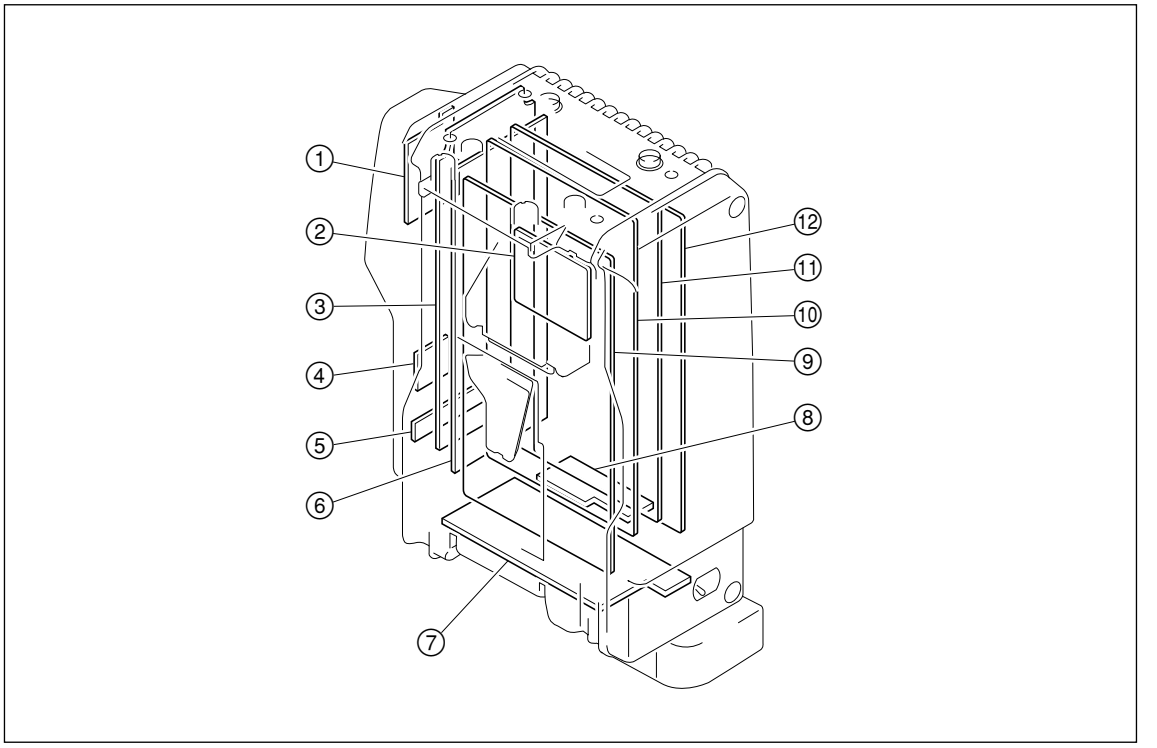
S1-4: DEC VCO ADJ

OFF: Used during normal operation.

ON: The internal VCO of an SDI decoder (CXD1342R) is set to the free-running state.

Factory setting: OFF

1-6. Location of Printed Circuit Boards



Board name	Circuit function	Location No.
AD-150/P	A/D converter, Composite decoder	10
CN-1528	Connector	3
CN-1529	Connector	1
DA-130/P	D/A converter, System control	11
DC-96	BATT IN connector	8
DIF-67	Serial digital interface	12
DU-31	Connector	4
HN-252	Harness	2
MB-766	Mother board	6
PS-501	Circuit breaker	7
RE-153	Regulator, DC-DC converter	9
SW-924	Switch	5

1-7. Circuit Description

1-7-1. RE-153 Board

The RE-153 board consists of a power circuit and microcomputer circuit. The power supplied from an AC adapter or battery is sent through the MB-766 board to the RE-153 board and regulated to +5 V, -5 V, +3 V, +3.5 V, and +9 V using a regulator circuit. The regulated power is supplied to each board as the drive power of a circuit.
The ON/OFF operation of the power circuit in CA is controlled by turning on and off the camcorder or CA power switch or by the voltage value of the supplied power. The power circuit also protects a circuit from trouble when each regulated output voltage line is short-circuited.
The microcomputer circuit controls all circuits in CA and the communication with a camcorder.
The microcomputer circuit also has an interface circuit for controlling the external VTR by a CCZ connector.

1-7-2. AD-150 and AD-150P Boards

The AD-150/P board is mainly used for the decoding and 4:2:2 encoding of an external input composite signal, the generation of a sync pulse, and the generation of a reference signal for gen-locking a camcorder. Almost all functions operate in only the composite input mode.
The HD signal input to an AD circuit is PLL-locked in the output and SDI input modes. The locked 27 MHz is sent to the DA-130 board to drive a digital encoder or reclock a 4:2:2 video signal to the DIF-67 board.

1-7-3. DA-130 and DA-130P Boards

The DA-130/P board is used to switch the output to a CCZ connector, the input from the AD-150/P board, and input and output to the DIF-67 board according to the input and output modes.
The processing for each mode is described below.

Output mode

The 4:2:2 video signal input from the 40-pin interface of a camera is sent through a bus switch (IC5) to the analog component block (IC19 and IC20), digital encoder (IC21), and DIF-67 board.
In the analog component block, the 4:2:2 video signal is 4:4:4 oversampled after demultiplexed and converted from digital to analog using IC20 to produce an analog video signal (Y, R-Y, and B-Y). The resultant signal is sent to the CCZ connector after blanking processing and level adjustment.
In the digital encoder, a composite video signal for CCZ output is generated and sent to the CCZ connector. In addition to the video signal, clock, HD, VD, sync, and blanking signals are also input from the camera. The clock is passed through a buffer, then distributed to each circuit and sent to other boards .
A timing signal such as the HD signal is passed through a phase adjustment circuit, then used for an analog component block and digital encoder.
The digital audio signal input from pin 40 is converted from digital to analog in channel 1 and output to the microphone line of a CCZ connector. In a power block, a voltage of +/-4.8 V is generated and sent to the audio processing system.

Input mode

The external input video signal converted into a 4:2:2 video signal, and the clock, HD, and color framing pulses extracted from an external input signal are input from the DIF-67 and AD-150/P boards.
The video and color framing pulses are written in asynchronous FIFO (IC7, IC13 , and IC15) in the timing of the HD pulse.

Moreover, the clock and HD pulses are input from a camcorder, and the video and color framing pulses are read from asynchronous FIFO in the timing of these pulses and sent to the 40-pin camcorder.
The camcorder is gen-locked using a RET video line signal from CA.
When a BNC input signal is SDI, a 4:2:2 video signal is also converted into a composite signal using a digital encoder. The converted signal is sent through a driver circuit to the RET video line of a camcorder. As a result, the camcorder is gen-locked.
When a BNC input signal is composite, the composite signal from the AD-150/P board is sent through a driver circuit to the RET video line of a camcorder. As a result, the camcorder is gen-locked.

1-7-4. DIF-67 Board

The DIF-67 board is mainly used for SDI input/output processing.
The BNC input and output signals of CA are used in common by an analog video composite signal and SDI signal. They are mode-selected using an SDI/COMPOSITE switch.

When COMPOSITE is set;

The input composite signal is fed through a 75-ohm driver to the output BNC connector as soon as it is sent to the AD-150/P board.

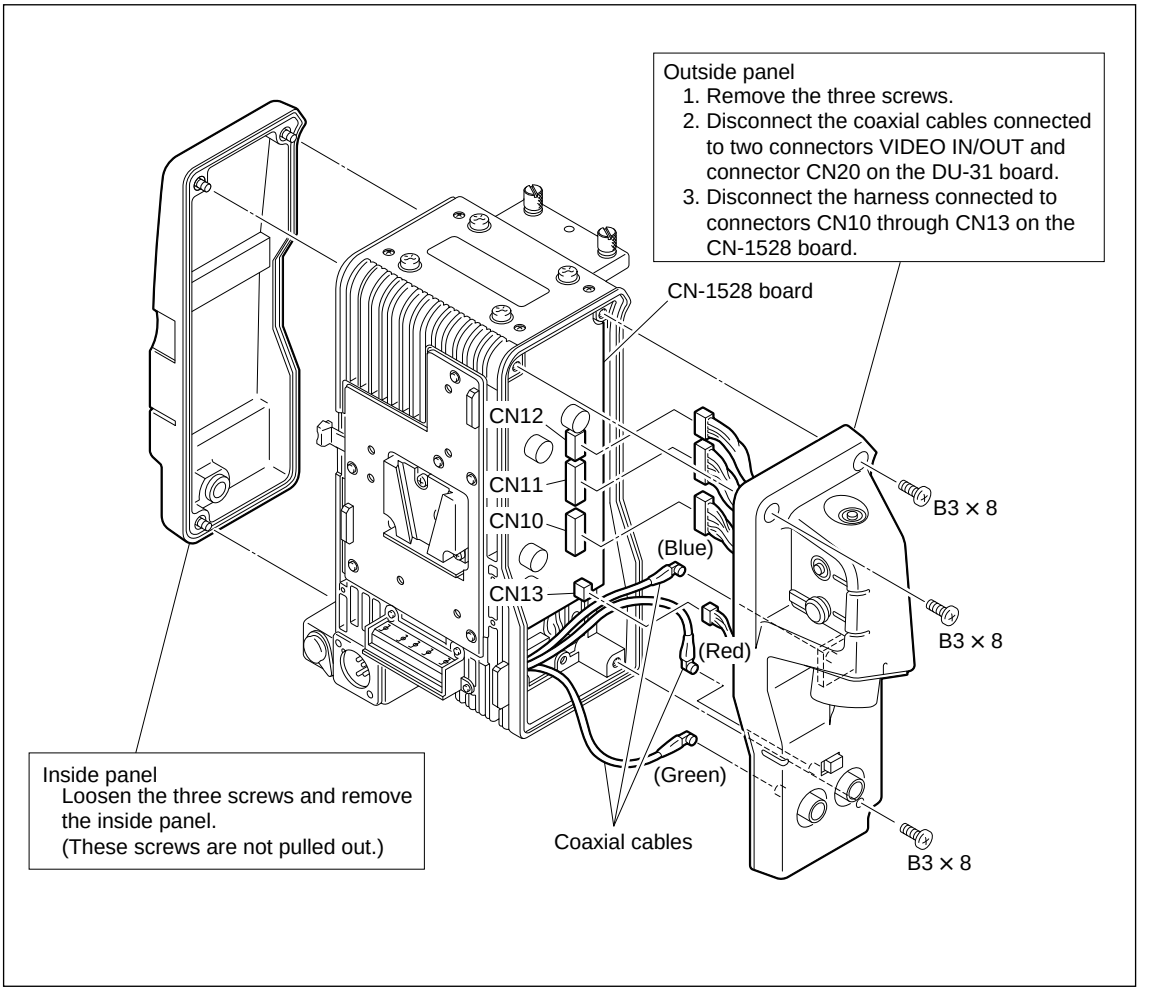
When SDI is set;

In the input mode, an SDI signal of 270 Mbps input from the input BNC of CA is reclocked and sent to the output BNC of CA by active-through operation, and simultaneously, the input SDI signal is converted into a 4:2:2 10-bit parallel signal and sent to the DA-130/P board. A clock pulse of 27 MHz extracted from an input SDI signal, an HD pulse generated from TRS in the parallel signal, and a color framing pulse generated based on the video index information are also output to the DA-130/P board.
For an audio signal, the embedded audio signal superimposed on the input SDI signal is converted into an AES/EBU format and sent to the camcorder as a four- channel audio signal.
In the output mode, the 4:2:2 10-bit parallel digital video signal (CAM signal or VTR PB signal of camcorder) that is phase-adjusted on the DA-130/P board and the four-channel digital audio signal based on the AES/EBU format sent from a camcorder are converted into an SDI output signal of 270 Mbps (an audio signal is time base-compressed and inserted into the sync tip period). This signal is sent to the CCZ connector and the output BNC connector.
For the signal output to the output BNC connector, an output SDI signal an BNC input SDI signal are switched and output using an SDI decoder (IC29).

The VBS and SDI signals output to the CCZ connector are switched to the SDI output signal or composite signal (sent from the DA-130/P board) according to the connected portable VTR (detected at pin 14 of a CCZ connector), irrespective of the SDI/COMPOSITE switch setting.

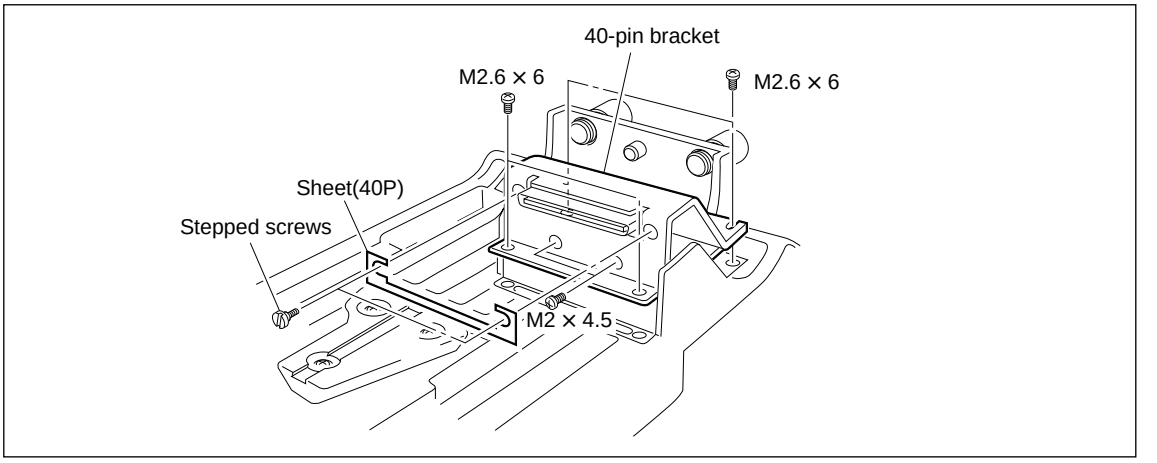
1-8. Replacement of Main Parts

1-8-1. Cabinet Removal

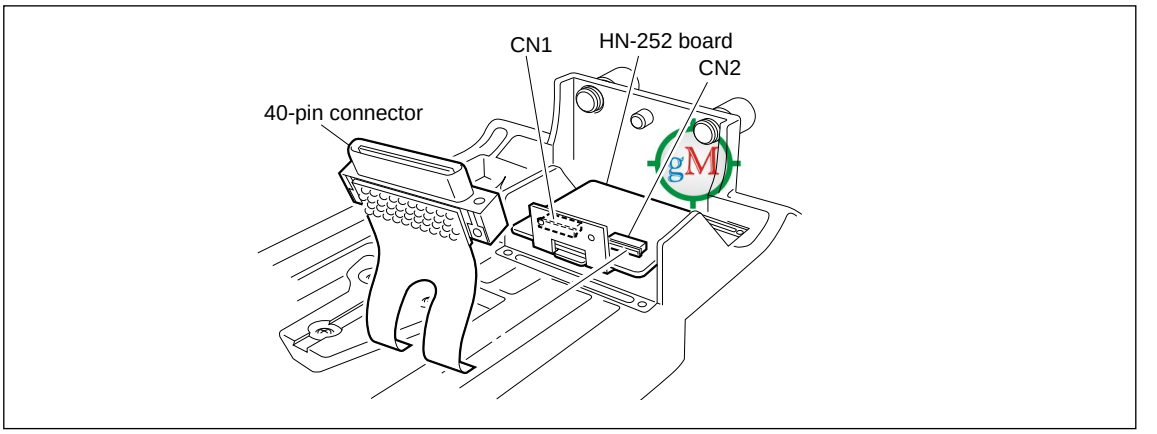

Outside panel
1. Remove the three screws.
2. Disconnect the coaxial cables connected to two connectors VIDEO IN/OUT and connector CN20 on the DU-31 board.
3. Disconnect the harness connected to connectors CN10 through CN13 on the CN-1528 board.
CN-1528 board
CN12
CN11
CN10
CN13
(Blue)
(Red)
(Green)
B3 × 8
B3 × 8
B3 × 8
Coaxial cables
Inside panel
Loosen the three screws and remove the inside panel.
(These screws are not pulled out.)

1-8-2. 40-pin Connector Replacement

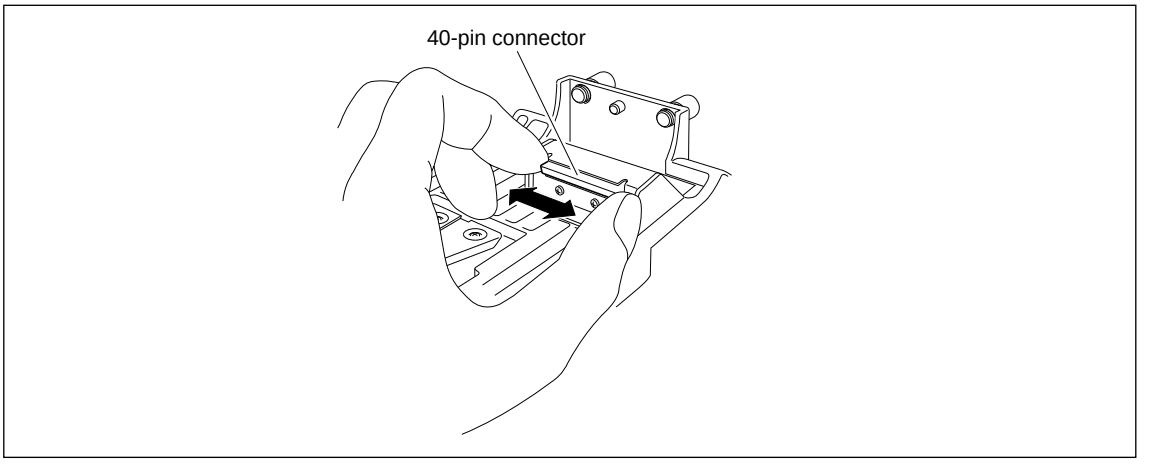
1. Remove the two (−)stepped screws and then remove the sheet(40P).
2. Remove the six screws and remove the 40-pin bracket.



3. Disconnect the 40-pin connector connected to connectors CN1 and CN2 on the HN-252 board.



4. Attach a new 40-pin connector in the reverse order of removal steps.
5. Check that the 40-pin connector is free to move by hand.



Note

Do not reuse the disconnected 40-pin connector.

1-8-3. Disconnecting/Connecting Flexible Card Wire

The flexible card wire is used between the HN-252 board and MB-766 board.Take care not to break the flexible card wire. This shorten the wire life.

Disconnecting

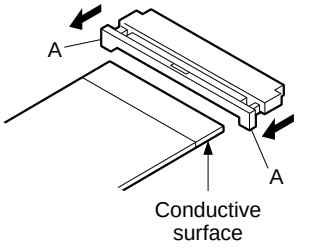
1. Turn off the power.
2. Slide portions A in the direction of the arrow to unlock and pull out the flexible card wire.

Connecting

Note

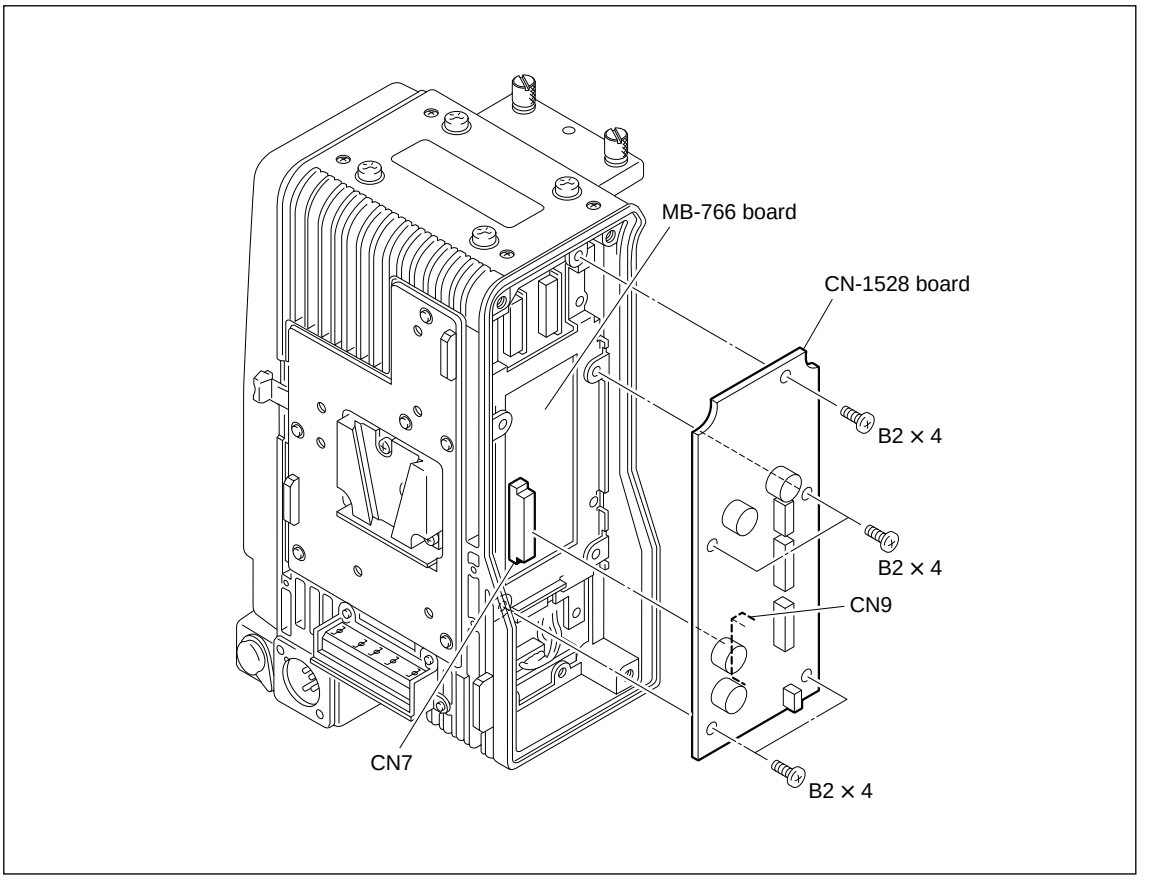
- Be careful not to insert the flexible card wire obliquely.
- Check that the conductive surface of the flexible card wire is not soiled with dust.

1. Slide portions A in the direction of the arrow and insert the flexible cared wire as far as it will go with the conductive surface down.
2. Slide portions A in the reverse direction to lock.



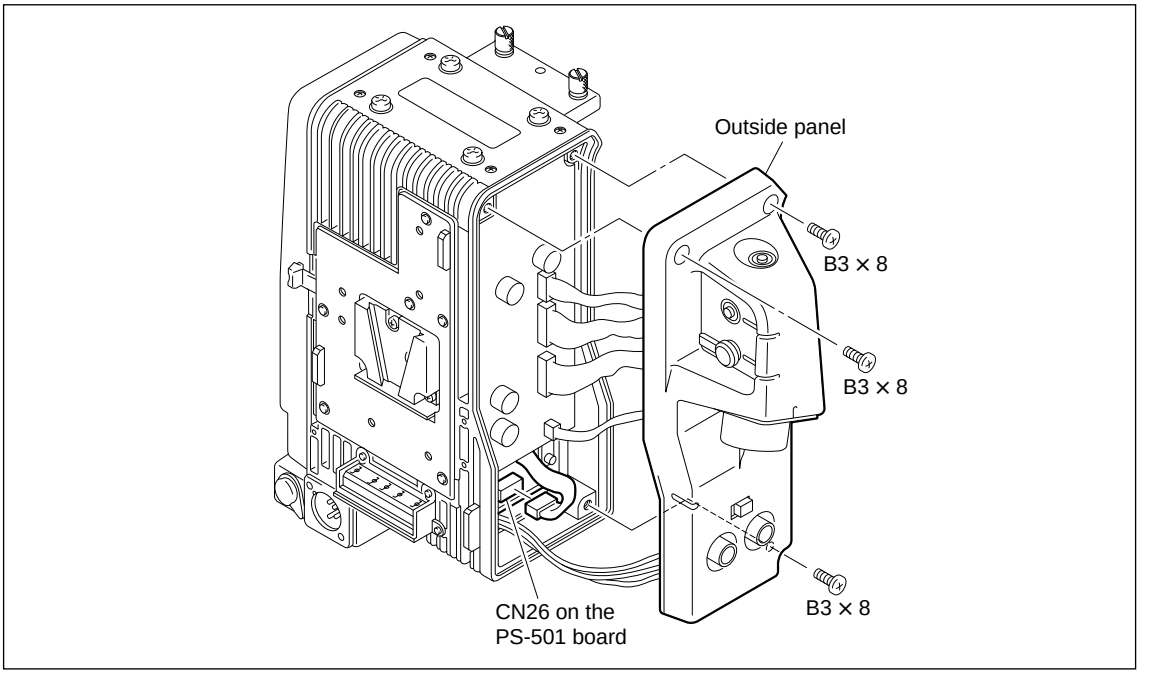
1-8-4. CN-1528 Board Replacement

1. Remove the outside panel. (Refer to Section 1-8-1.)
2. Remove the five screws.
3. Lift the CN-1528 board up and disconnect the connector CN9 on the CN-1528 board from the connector CN7 on the MB-766 board.
4. Install a new CN-1528 board in the reverse order of removal.

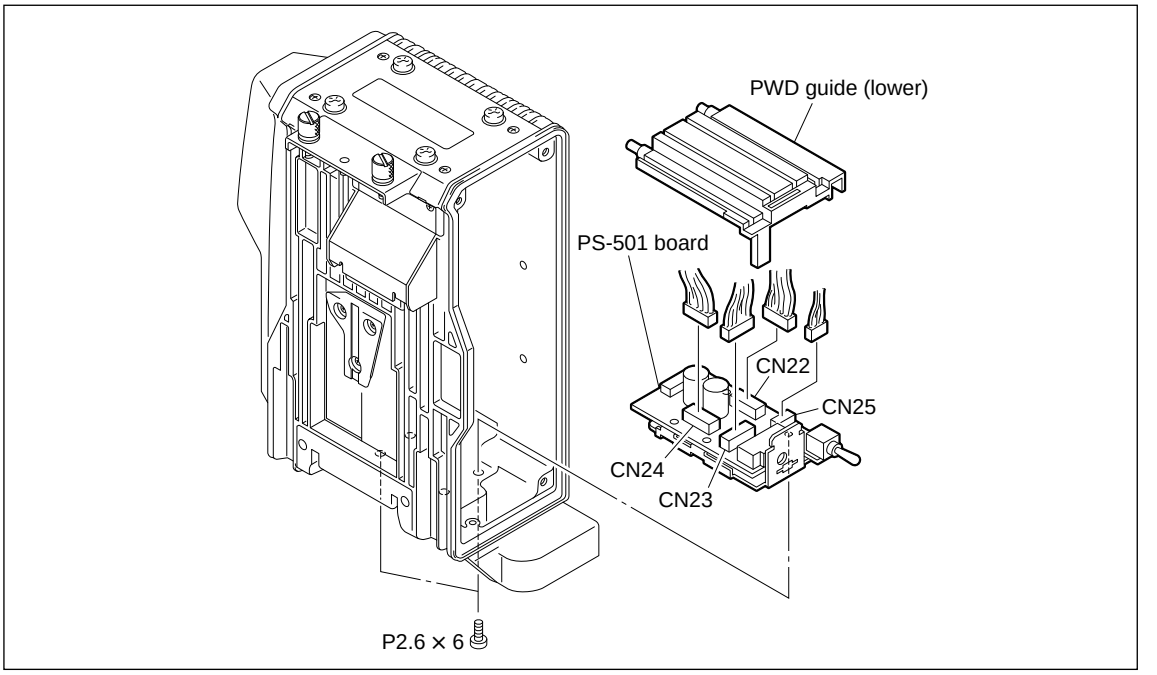


1-8-5. PS-501 Board Replacement

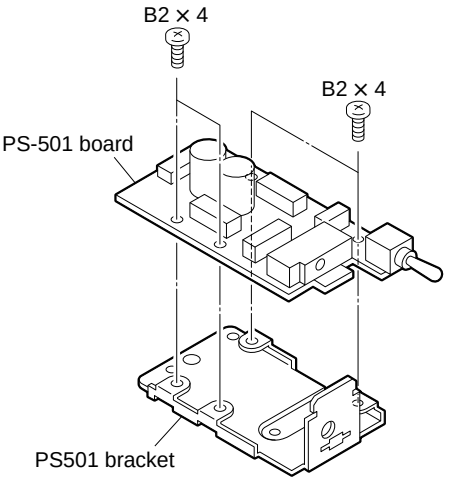
1. Open the outside panel.
2. Disconnect the harness connected to connector CN26 on the PS-501 board.



3. Remove the inside panel. (Refer to Section 1-8-1.)
4. Remove the four plug-in boards.
5. Remove the PWB guide(lower).
6. Disconnect the harness connected to connectors CN22 through CN25 on the PS-501 board.
7. Remove the two screws.



8. Remove the four screws and remove the PS-501 board form the PS501 bracket.
9. Install a new PS-501 board in the reverse order of removal.



Notes on installing

When installing, take care that the harness is not caught between the chassis and the board or PWB guide(lower).

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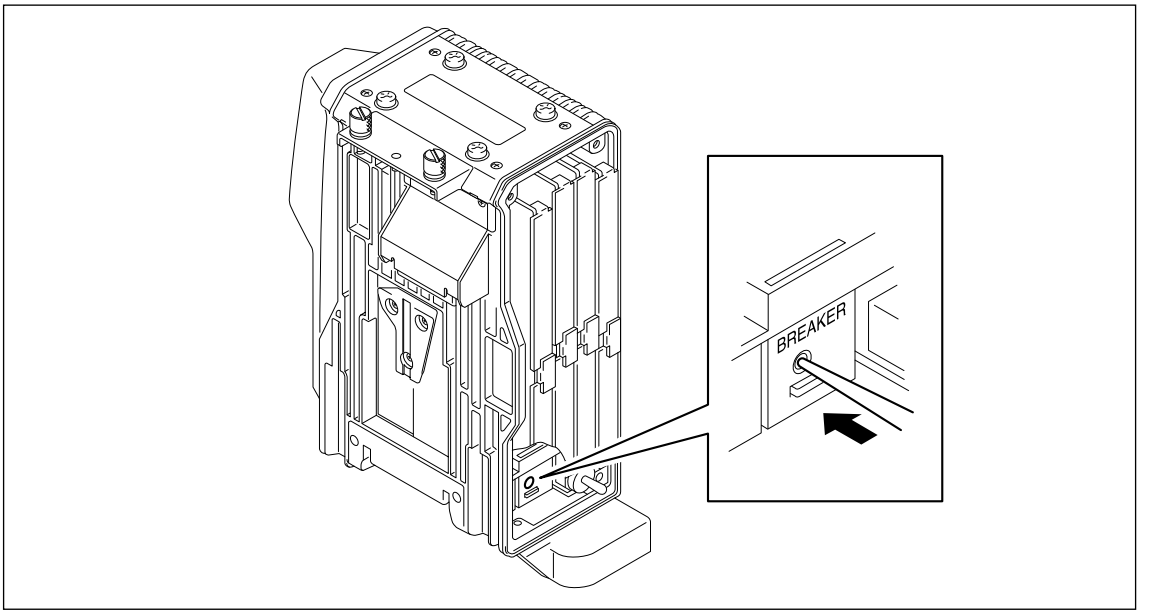
1-9. Notes on Service

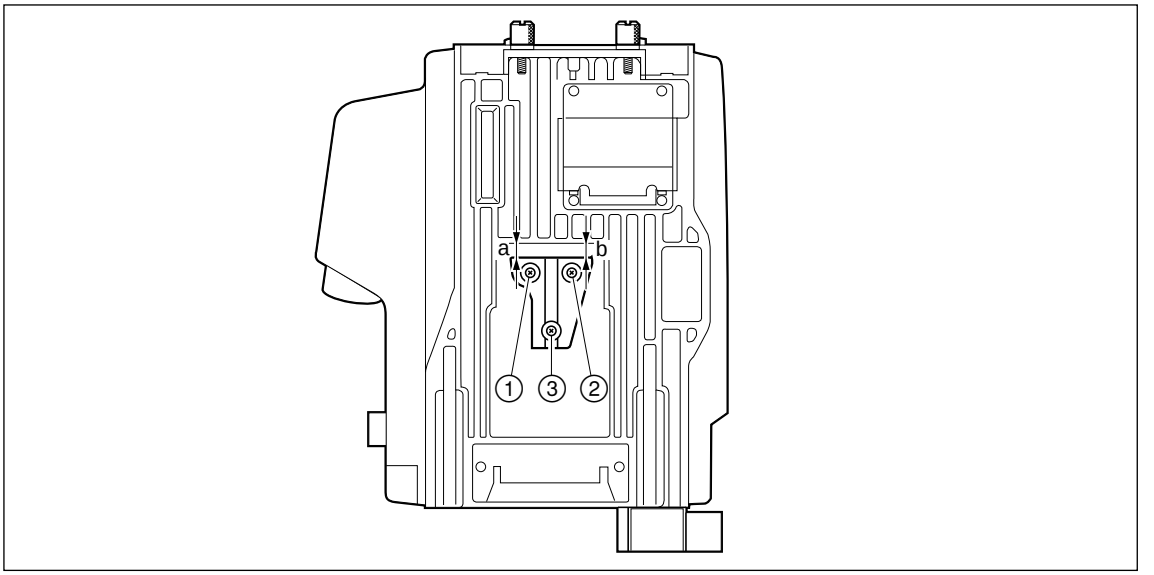
1-9-1. Power Circuit Breaker

Excessive current in the internal circuitry will trip the circuit breaker, then the power turns off automatically. Check the circuit to eliminate the cause for which the excessive current flows.Press the button shown in the figure and the power will be turned on.



1-9-2. Notes on Replacement of V Shoe

When fastening the V shoe to the main chassis, be sure to adjust the mounting position with precisely.The mounting position of the V shoe on the CA-702/P affects the connected position of the DVW-700/700WS/700P/700WSP, DNV-5 or DNW-7/90/90WS/7P/90P/90WSP.Be sure to tighten the three screws in order of 1 to 3 as shown in the figure. [Tightening torque: 0.53 ±0.07 N•m (5.3 ±0.7 kgf•cm)]
After replacement is completed, check the specification is met.
Specification: a – b = 0 ±0.1 mm



1-10. Optional Fixture

1-10-1. Fixtures List

Extension board EX-627: A-8317-716-A
Torque screwdriver (12 kgf•cm)(1.2 N•m)[JB-5252]: J-6252-520-A

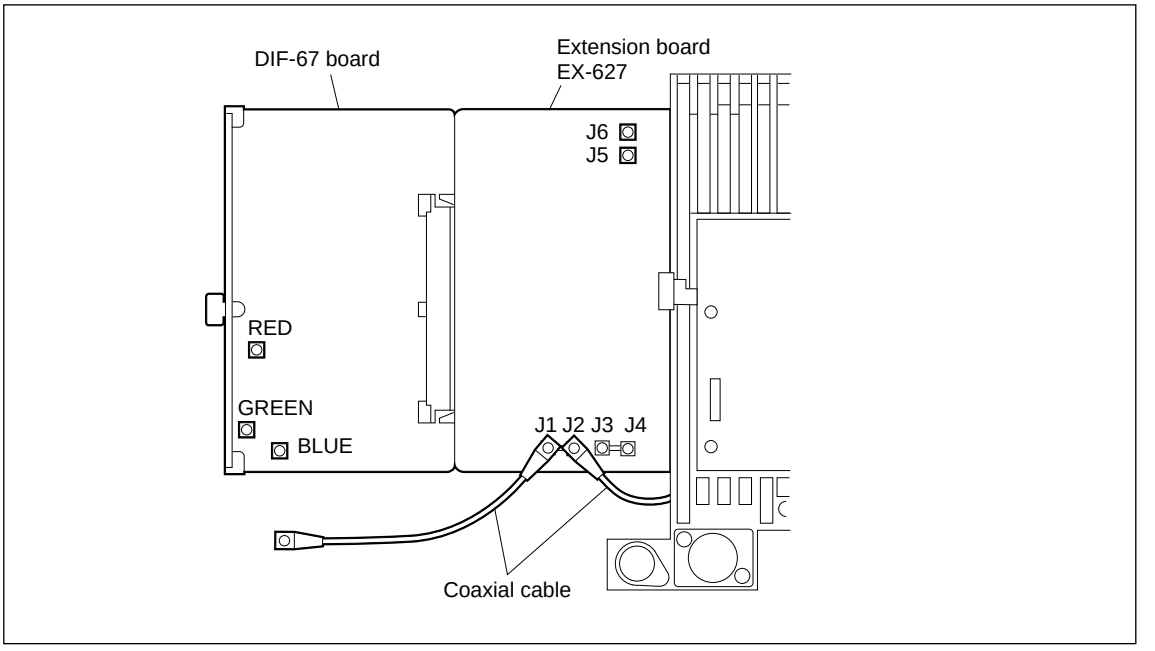
1-10-2. Extending PC Board

You can check the AD-150/P, DA-130/P and RE-153 boards while extending by using an extension board EX-627.When checking the DIF-67 board while extending, connect the following coaxial cables to the DIF-67 board according to necessary shown in the figure.

GREEN: BNC input
RED: BNC output
BLUE: CCZ VBS/SDI output

When the extended DIF-67 board is returned to its normal position, be sure to reconnect the coaxial cables in coincide with the cable color and indication on the board.
The coaxial cable (extension) is available as a replacement part. If broken, replace the cable with a new one.

Coaxial cable (extension) : Sony P/N 1-783-252-11



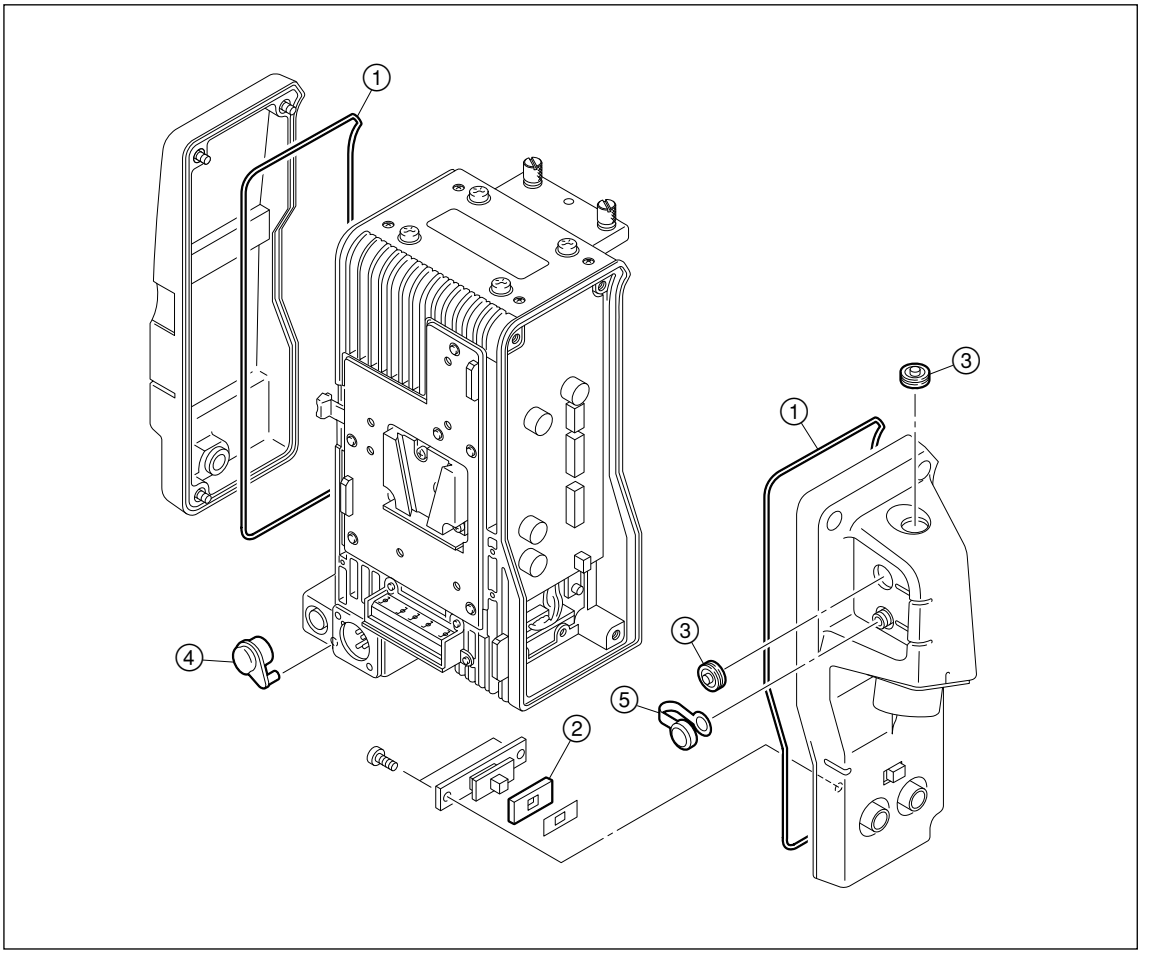
Note

When keeping the extension board EX-627 in storage,connect the two coaxial cables to connector jacks J5 and J6 on the extension board. This will prevent the cables from being broken.When using the extension board without connecting the coaxial cables, it is recommended to connect the cables to J5 and J6 while extending.

1-11. Recommended Replacement Part

Parts listed below are recommended replacement parts.They are subject to cracks with the lapse of time. Check sometimes by visual, and replace as necessary.

No.	Description	Sony Part No.
1	TUBE, SHIELD	3-190-628-01
2	RUBBER(SLIDE), DROP PROTECTION	3-612-447-01
3	COVER, SWITCH	3-676-244-00
4	RUBBUR(DO), DROP PROTECTION	3-680-269-01
5	COVER, EARPHONE JACK	3-849-405-00



1-12. Notes on Spare Parts

1. Safety Related Components Warning

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP(Supply Code) column of the spare parts list may be not stocked. Therefore, the delivery date will be delayed.

4. Units Representation

The following represented units are changed or omitted in writing.

Units		Representation
Capacitance	µF	uF
Inductance	µH	uH
Resistance	Ω	Abbreviation
Temperature	°C	XXX-DEG-C

Section 2
Electrical Alignment

2-1. Preparation

2-1-1. Equipment Required

Fixture:

Extension board EX-627 (Sony P/N : A-8317-716-A, Option)

Measuring Equipment:

- Frequency counter: Advantest TR5821AK or equivalent
- Oscilloscope: Tektronix 2465B or equivalent
- Waveform monitor/Vectorscope:
  Tektronix 1780R or equivalent (for NTSC)
  Tektronix 1781R or equivalent (for PAL)
- Digital voltmeter: Advantest TR6450 or equivalent
- Video signal generator: Tektronix TSG130 or equivalent (for NTSC)
  Tektronix TSG131 or equivalent (for PAL)

Peripheral Equipment:

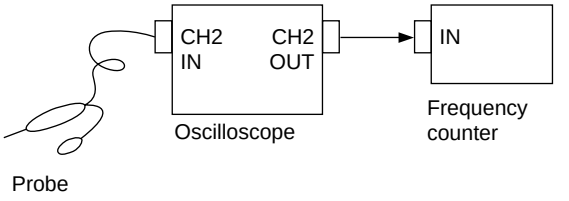
- Camcorder: DNW-7/7P series
- AC adaptor: AC-550/550CE or AC-DN1

2-1-2. Notes on Adjustments

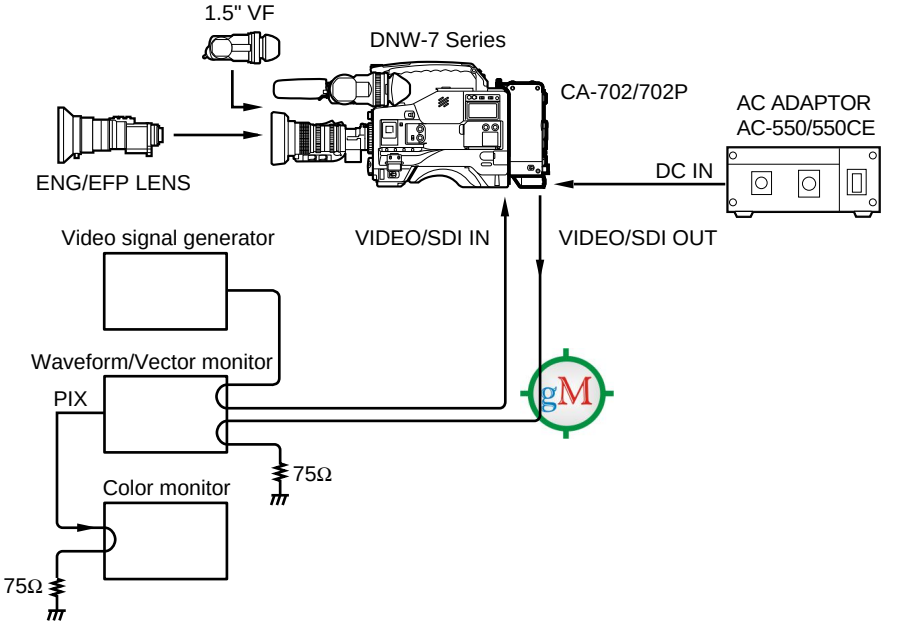
- All measuring equipment shall be calibrated.
- The alignment for DNW-7/7P series shall be completed.
- To adjust each plug-in board, extend using the extension board.
- The waveforms differ according to the specifications (TV standard and encoded level) of a camera connected to the unit during adjustment.
  In this manual, every waveform corresponding to the specifications is given.

2-1-3. Connection

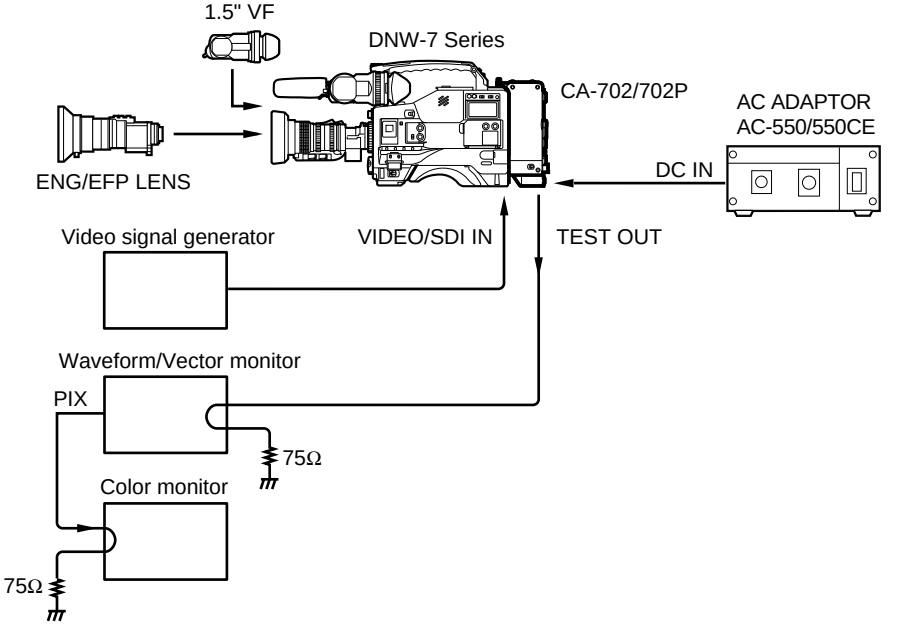
VCO Adjustment



Video Adjustment



DA Adjustment



2-2. RE-153 Board Adjustment

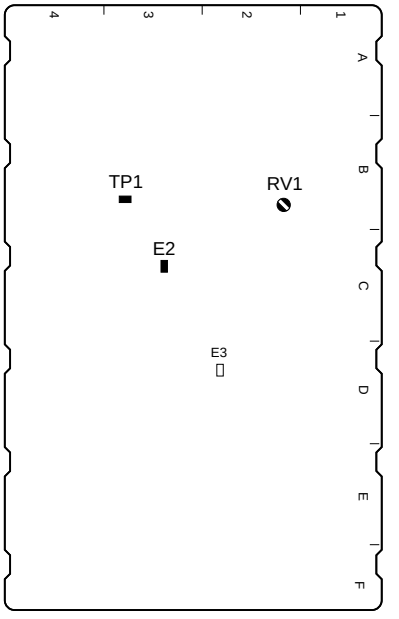
2-2-1. Voltage Adjustment

Preparations

Set the POWER switch of CA to ON. And set the POWER switch of Camcorder to ON.

Adjustment Procedure

Equipment: Digital Voltmeter
Setting: DC range
Test Point: TP1/RE-153, GND: E2/RE-153
Adjustment Point: ⊘RV1 (+5V ADJ) / RE-153
Specifications: +5.0 ±0.01 V



RE-153 BOARD (B SIDE)

2-3. DIF-67 Board Adjustment

2-3-1. ENC VCO Free-run Frequency Adjustment

Preparations

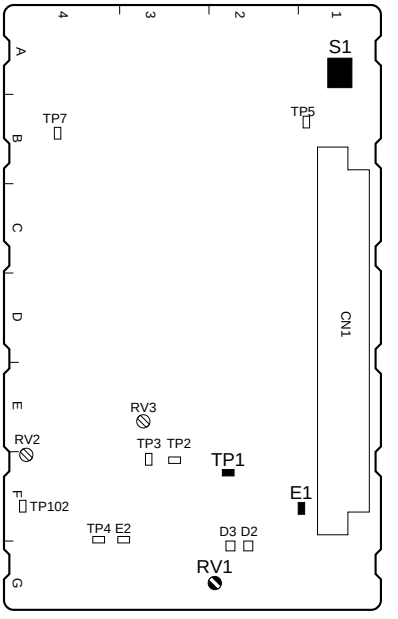
1. Set the power switch of CA to OFF and extend the DIF-67 board.
2. Warm up for approximately ten minutes in the procedures below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to SDI.
   (2) Set the power switch of CA to OUTPUT and the power switch of a camcorder to ON.
   (3) Warm up for approximately ten minutes.
3. S1-3/DIF-67 (ENC VCO ADJ) ⇨ ON
4. Connect each equipment referring to 2-1-3, “Connection - VCO Adjustment.”

Adjustment Procedure

Equipment: Frequency counter, Oscilloscope
Test Point: TP1/DIF-67, GND: E1/DIF-67
Adjustment Point: ◓RV1 (VCO ADJ1)/DIF-67
Specifications: 27.0 ±0.1 MHz

Note in Finishing Adjustment

• S1-3/DIF-67 ⇨ OFF



DIF-67 BOARD (A SIDE)

2-3-2. DEC VCO Free-run Frequency Adjustment

Preparations

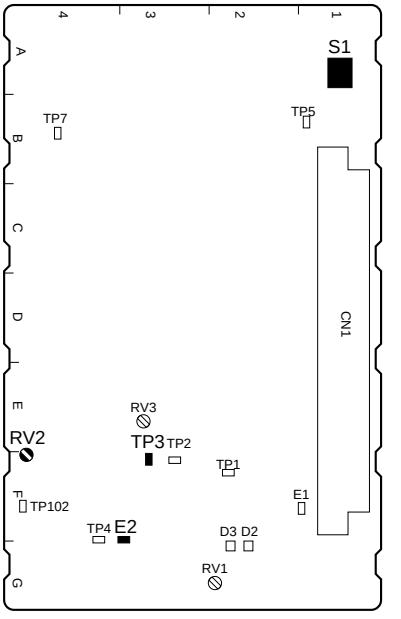
1. Set the power switch of CA to OFF and extend the DIF-67 board.
2. Warm up for approximately ten minutes in the procedures below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to SDI.
   (2) Set the power switch of CA to OUTPUT and the power switch of a camcorder to ON.
   (3) Warm up for approximately ten minutes.
3. S1-4/DIF-67 (ENC VCO ADJ) ⇨ ON
4. Connect each equipment referring to 2-1-3, “Connection - VCO Adjustment.”

Adjustment Procedure

Equipment: Frequency counter, Oscilloscope
Test Point: TP3/DIF-67, GND: E2/DIF-67
Adjustment Point: ⊘RV2 (VCO ADJ2)/DIF-67
Specifications: 27.0 ± 0.1 MHz

Note in Finishing Adjustment

• S1-4/DIF-67 ⇨ OFF



DIF-67 BOARD (A SIDE)

2-3-3. Video Gain Adjustment

Preparation

1. Connect each equipment referring to 2-1-3, “Connection - Video Adjustment.”
2. Set the power switch of CA to OFF and extend the DIF-67 board.
3. Extend connectors CN3 (red) and CN4 (green) on the DIF-67 board. (Refer to 1-10-2, “Extending PC Board”.)
4. Warm up for approximately ten minutes in the procedures below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to COMPOSITE.
   (2) Set the power switch of CA to INPUT and the power switch of a camcorder to ON.
   (3) Warm up for approximately ten minutes.
5. Video signal generator ⇨ 75% color-bar signal (setup 7.5%)

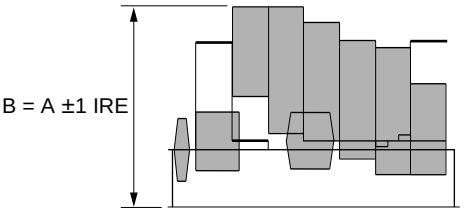
Adjustment

1. Measure video level A of a video signal generator.

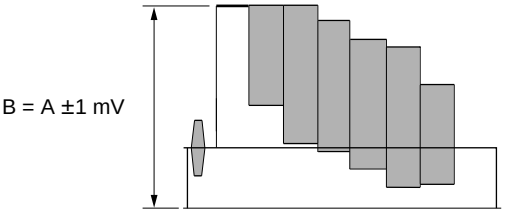
Measurement equipment: Waveform/Vector monitor
Setting: DISPLAY ⇨ WFM
SWEEPS ⇨ 2H
Measurement point: Video signal generator output

2. Switch the inputs of a waveform monitor and vector monitor and measure video level B of a VIDEO/SDI OUT connector.

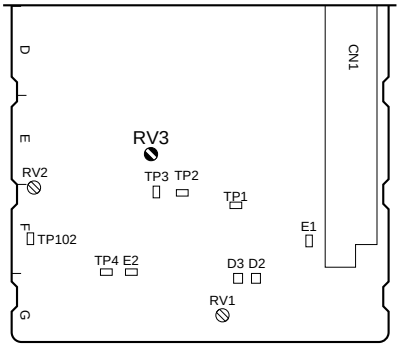
Measurement equipment: Waveform/vector monitor
Setting: DISPLAY ⇨ WFM
SWEEPS ⇨ 2H
Measurement point: VIDEO/SDI OUT connector
Adjustment point: ◓RV3(VIDEO GAIN)/DIF-67 board
Specifications: NTSC PAL
B = A ±1 IRE B = A ±1 mV (for PAL)



(NTSC Setup 7.5%)



(PAL)



DIF-67 BOARD (A SIDE)

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2-4. AD-150/P Board Adjustment

2-4-1. 8Fsc VCO Adjustment

This adjustment is for the AD-150 board with board suffix -12 or higher.

Preparations

1. Connect each equipment referring to 2-1-3, “Connection - AD Adjustment.”
2. Set the power switch of CA to OFF and extend the AD-150/P board.
3. Warm up for approximately ten minutes in the procedure below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to COMPOSITE.
   (2) Set the power switch of CA to INPUT and the power switch of a camcorder to ON.
   (3) Confirm that the “EXT” display blinks in the viewfinder of a camcorder and warm up for approximately ten minutes.
4. Video signal generator ⇨ 75% color-bar signal (setup 7.5% for NTSC)
5. S1/AD-150/P (AGC) ⇨ OFF

Adjustment Procedures

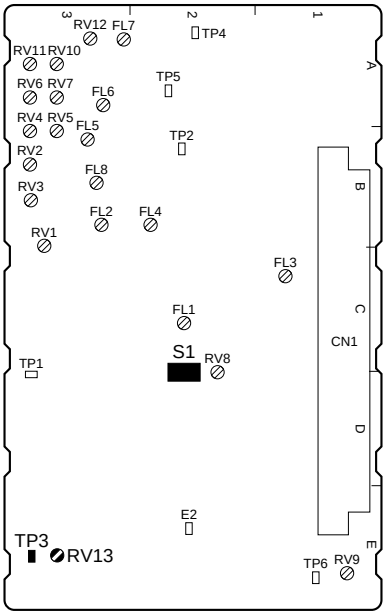
Notes

- Perform this adjustment in the color-locked state*.

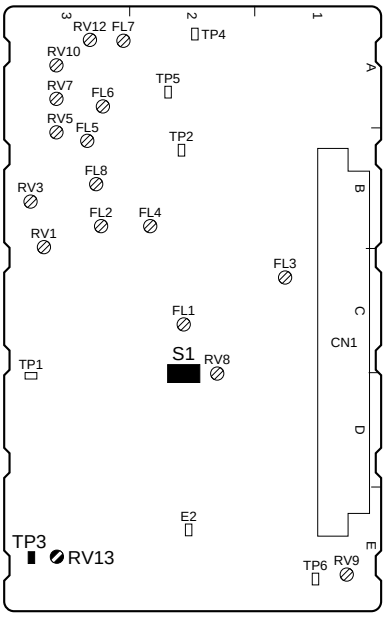
  *: The color-locked state means that the internal 8-fsc VCO is PLL-locked with the burst signal of the external input signal and the color signal is properly produced.

- If the variable resistor is improperly aligned, the unit may lose color-lock. In this case, turn the variable resistor slowly until the unit is color-locked.
- Turn the variable resistor very slowly, or the unit may lose color-lock.

Equipment: Digital voltmeter
Test Point: TP3/AD-150/P, GND: E2/AD-150/P
Adjustment Point: ⊘RV13 (VCO ADJ)/AD-150/P
Specifications: +1.70 ± 0.01 V



AD-150 BOARD (A SIDE)



AD-150P BOARD (A SIDE)

2-4-2. Analog Composite A/D Level Adjustment

Preparations

1. Connect each equipment referring to 2-1-3, “Connection - AD Adjustment.”
2. Set the power switch of CA to OFF and extend the AD-150/P board.
3. Warm up for approximately ten minutes in the procedure below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to COMPOSITE.
   (2) Set the power switch of CA to INPUT and the power switch of a camcorder to ON.
   (3) Confirm that the “EXT” display blinks in the viewfinder of a camcorder and warm up for approximately ten minutes.
4. Video signal generator ⇨ 75% color-bar signal (setup 7.5% for NTSC)
5. S1/AD-150/P (AGC) ⇨ OFF

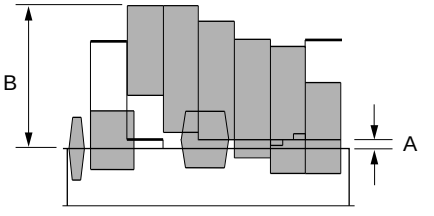
Adjustment Procedures

1. SETUP Level Adjustment
   Equipment: Waveform/Vector monitor
   Setting: DISPLAY ⇨ WFM
   SWEEPS ⇨ 2H
   Test Point: TEST OUT connector/Camcorder

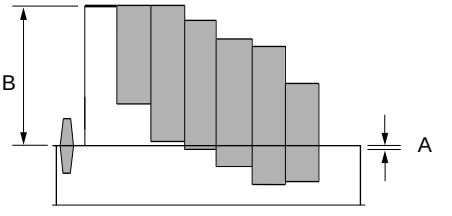
Adjustment Point:	NTSC	PAL
	⊘RV11 (UC SETUP)/AD-150	⊘RV10 (J/P SETUP)/AD-150P
Specifications:	A = 7.5 ± 2 IRE	A = 0 ± 7 mV (for PAL)

2. Y Level Adjustment
   Test Point: TEST OUT connector/Camcorder

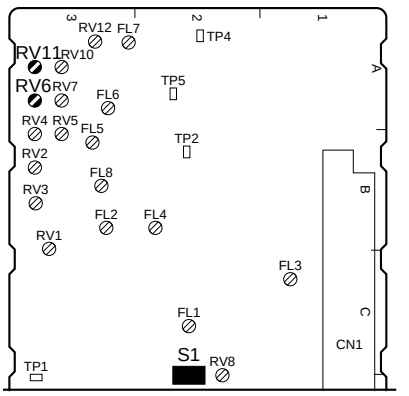
Adjustment Point:	NTSC	PAL
	⊘RV6 (UC SETUP)/AD-150	⊘RV7 (J/P SETUP)/AD-150P
Specifications:	B = 100 ± 2 IRE	B = 700 ± 14 mV (for PAL)



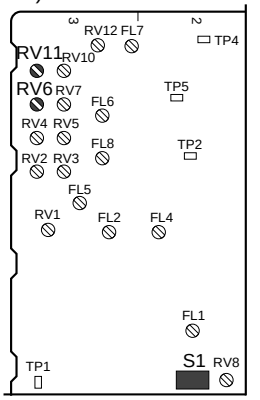
(NTSC Setup 7.5%)



(PAL)

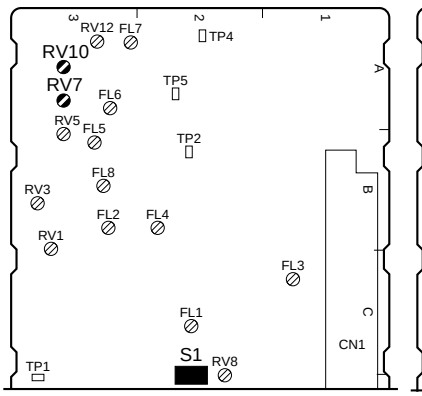


Suffix -12 or higher

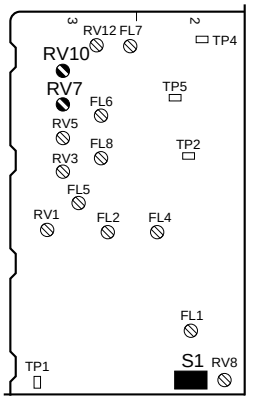


Suffix -11

AD-150 BOARD (A SIDE)



Suffix -12 or higher



Suffix -11

AD-150P BOARD (A SIDE)

3. R-Y Gain, B-Y Gain, HUE Adjustment

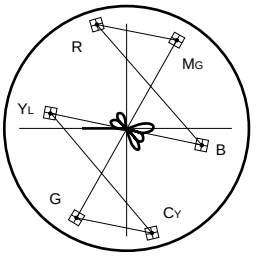
Equipment: Waveform/Vector monitor
Setting: DISPLAY ⇨ Vector (Setup 7.5% for NTSC)

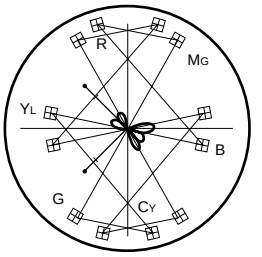
Test Point: TEST OUT connector/Camcorder

Adjustment Point:

NTSC	PAL
⊘RV4 (UC R-Y)/AD-150	⊘RV5 (J/P R-Y)/AD-150P
⊘RV2 (UC B-Y)/AD-150	⊘RV3 (J/P B-Y)/AD-150P
⊘RV12 (HUE)/AD-150	⊘RV12 (HUE)/AD-150P

Specifications: Adjust so that the beam spots are positioned in ⊞ on the vector screen





4. AGC OFFSET Adjustment

S1/AD-150 (AGC) ⇨ ON

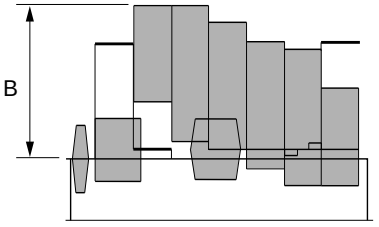
Equipment: Waveform/Vector monitor
Setting: DISPLAY ⇨ WFM
SWEEPS ⇨ 2H

Test Point: TEST OUT connector/Camcorder

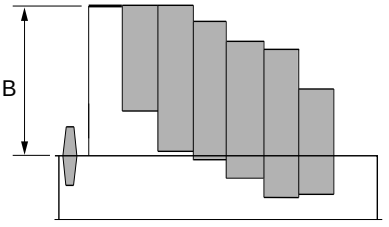
Adjustment Point: ⊘RV8 (AGC OFFSET)/AD-150/P

Specifications:

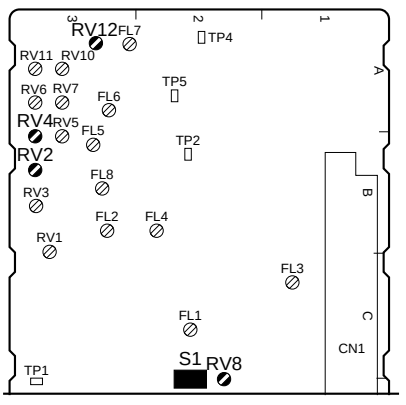
NTSC	PAL
B = 100 ±2 IRE	B = 700 ±14 mV



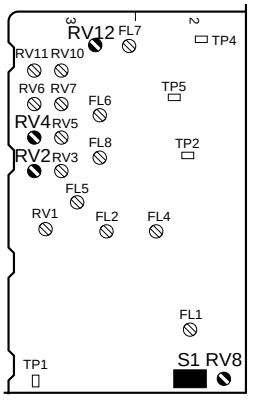
(NTSC Setup 7.5%)



(PAL)

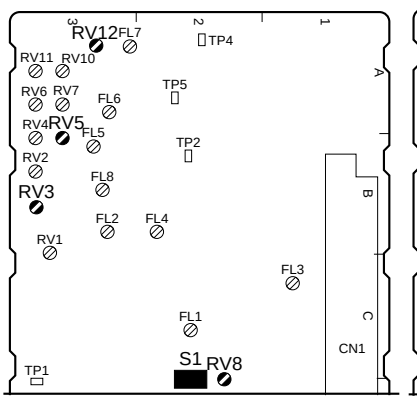


Suffix -12 or higher

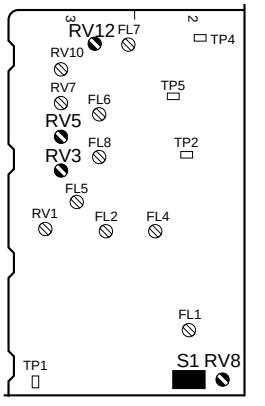


Suffix -11

AD-150 BOARD (A SIDE)



Suffix -12 or higher



Suffix -11

AD-150P BOARD (A SIDE)

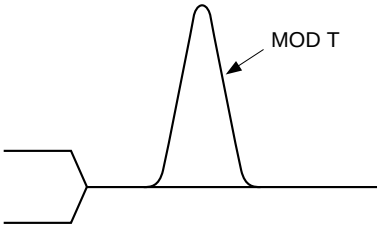
2-4-3. Analog Composite Y/C Delay Adjustment

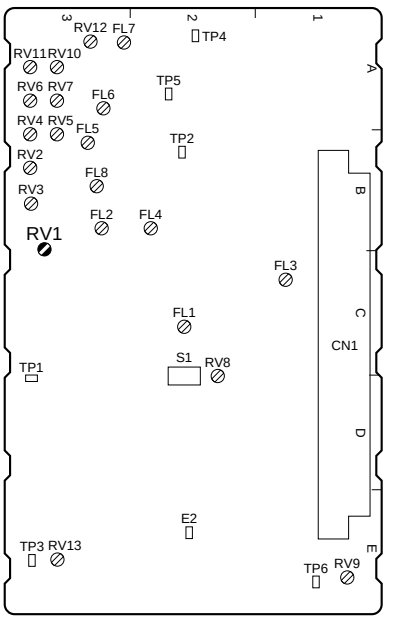
Preparations

1. Connect each equipment referring to 2-1-3, “Connection - AD Adjustment.”
2. Set the power switch of CA to OFF and extend the AD-150/P board.
3. Warm up for approximately ten minutes in the procedure below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to COMPOSITE.
   (2) Set the power switch of CA to INPUT and the power switch of a camcorder to ON.
   (3) Confirm that the “EXT” display blinks in the viewfinder of a camcorder and warm up for approximately ten minutes.
4. Video signal generator ⇨ PULSE & BAR

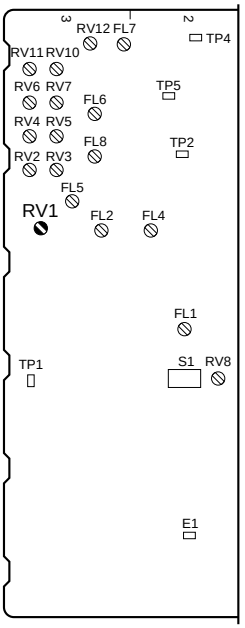
Adjustment Procedures

Equipment: Waveform/Vector monitor
Setting: DISPLAY ⇨ WFM
Test Point: TEST OUT connector/Camcorder
Adjustment Point: ◓RV1 (YC DELAY)/AD-150/P
Specifications: ≤ 20 ns



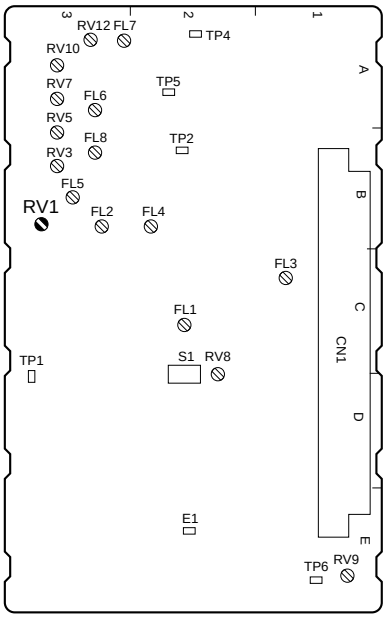


Suffix -12 or higher

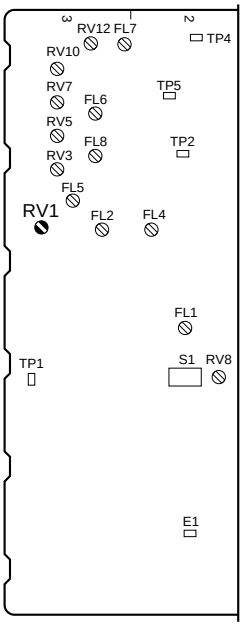


Suffix -11

AD-150 BOARD (A SIDE)



Suffix -12 or higher



Suffix -11

AD-150P BOARD (A SIDE)

2-4-4. Analog Composite A/D Level Adjustment (J mode)

The CA-702 needs the following adjustment to maintain its performance. The CA-702P, however, does not need.

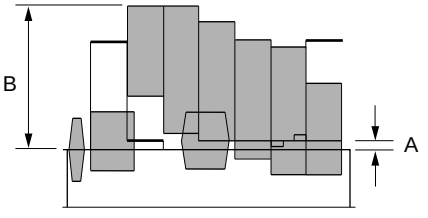
Preparations

1. Connect each equipment referring to 2-1-3, “Connection - AD Adjustment.”
2. Set the power switch of CA to OFF and extend the AD-150 board.
3. S102-2/RE-153 (UC/J mode inversion) ⇨ ON
4. S1/AD-150 (AGC) ⇨ OFF
5. Warm up for approximately ten minutes in the procedures below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to COMPOSITE.
   (2) Set the power switch of CA to INPUT and the power switch of a camcorder to ON.
   (3) Confirm that the “EXT” display blinks in the viewfinder of a camcorder and warm up for approximately ten minutes.
6. Video signal generator ⇨ 75% color-bar signal (setup 0%)

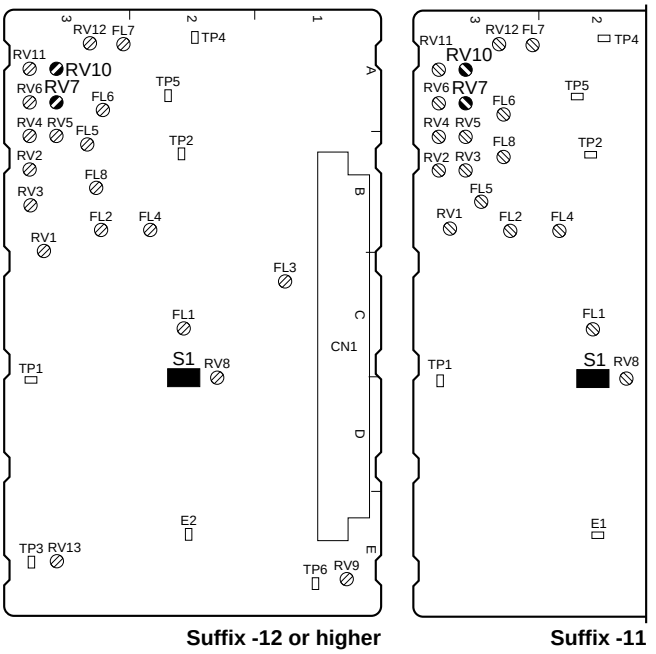
Adjustment Procedures

1. SETUP Level Adjustment
   Equipment: Waveform/Vector monitor
   Setting: DISPLAY ⇨ WFM
   SWEEPS ⇨ 2H
   Test Point: TEST OUT connector/Camcorder
   Adjustment Point: ◓RV10 (J/P SETUP)/AD-150
   Specifications: A = 7.5 ±2 IRE

2. Y Level Adjustment
   Equipment: Waveform/Vector monitor
   Setting: DISPLAY ⇨ WFM
   SWEEPS ⇨ 2H
   Test Point: TEST OUT connector/Camcorder
   Adjustment Point: ◓RV7 (J/P SETUP)/AD-150
   Specifications: B = 100 ±2 IRE



(NTSC Setup 7.5%)



Suffix -12 or higher **Suffix -11**

AD-150 BOARD (A SIDE)

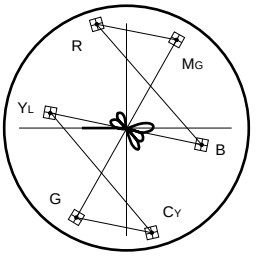
3. R-Y Gain, B-Y Gain Adjustment

Equipment: Waveform/Vector monitor
Setting: DISPLAY ⇨ Vector (Setup 7.5%)

Test Point: TEST OUT connector/Camcorder

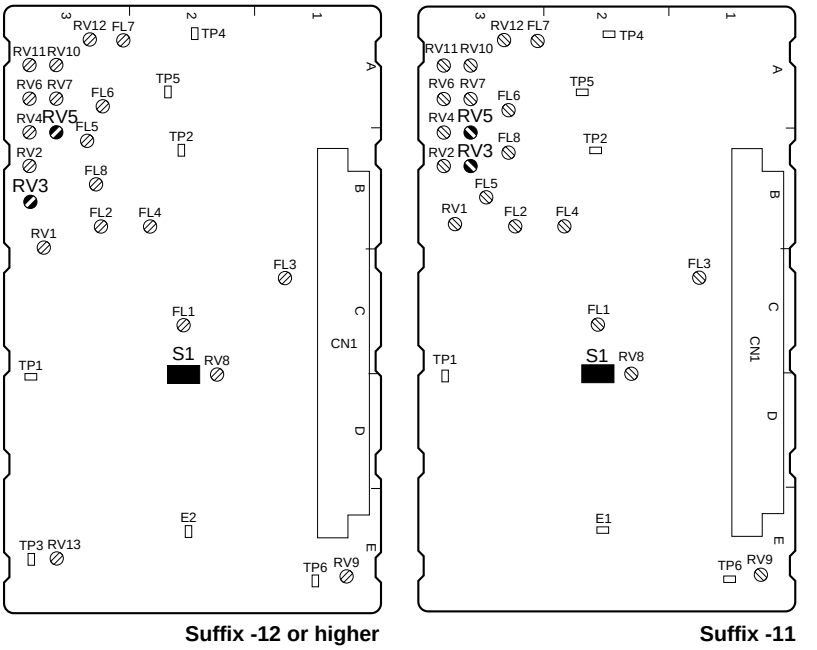
Adjustment Point: ◓RV5 (J/P R-Y)/AD-150
◓RV3 (J/P B-Y)/AD-150

Specifications: Adjust so that the beam spots are positioned in ⊞ on the vector screen



Note in Finishing Adjustment

- S102-2/RE-153 (UC/J mode inversion) ⇨ OFF
- S1/AD-150 (AGC) ⇨ ON



Suffix -12 or higher **Suffix -11**

AD-150 BOARD (A SIDE)

2-5. DA-130/P Board Adjustment

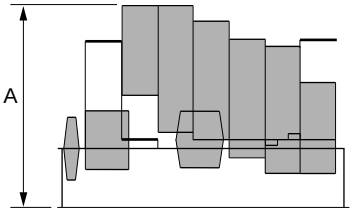
2-5-1. CCZ VBS Level Adjustment

Preparations

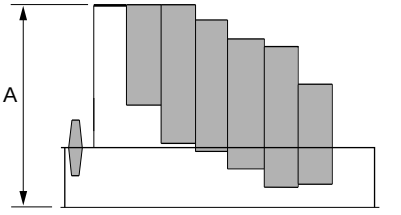
1. Set the power switch of CA to OFF and extend the DA-130/P board.
2. S102-1/RE-153 (forced CCZ output) ⇨ ON
3. Warm up for approximately ten minutes in the procedures below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to COMPOSITE.
   (2) Set the power switch of CA to INPUT and the power switch of a camcorder to ON.
   (3) Warm up for approximately ten minutes.
4. OUTPUT/DCC switch (Comcorder) ⇨ BARS/OFF
5. No cable is connected at the CCZ connector.

Adjustment Procedure

Equipment: Oscilloscope
Test Point: TP37/EX-627 for DA-130/P, GND: TP38/EX-627 for DA-130/P
TRIG: HD; TP86/EX-627 for DA-130/P
Adjustment Point: ◓RV6 (VBS LEVEL)/ DA-130/P
Specifications: A = 1.00 ±0.05 Vp-p



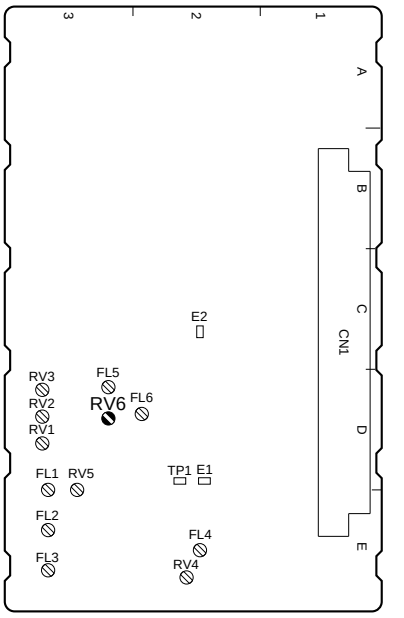
(NTSC Setup 7.5%)



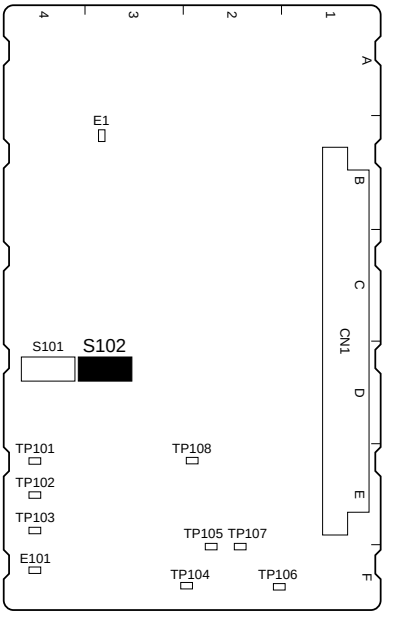
(PAL)

Note in Finishing Adjustment

• S102-1/RE-153 ⇨ OFF



DA-130/P BOARD (A SIDE)



RE-153 BOARD (A SIDE)

2-5-2. CCZ Component Level Adjustment

Preparations

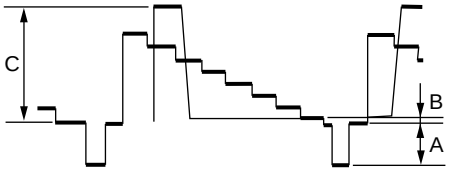
1. Set the power switch of CA to OFF and extend the DA-130/P board.
2. S102-1/RE-153 (forced CCZ output) ⇨ ON
3. Warm up for approximately ten minutes in the procedures below before performing the adjustment.
   (1) Set the SDI/COMPOSITE switch on the outside panel of CA to COMPOSITE.
   (2) Set the power switch of CA to INPUT and the power switch of a camcorder to ON.
   (3) Warm up for approximately ten minutes.
4. OUTPUT/DCC switch (Comcorder) ⇨ BARS/OFF
5. No cable is connected at the CCZ connector.

Adjustment Procedures

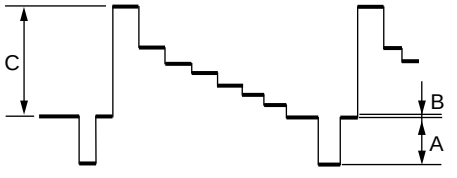
1. Y Level Adjustment

   Equipment: Oscilloscope
   Setting: 20 MHz B/W LIMIT ⇨ ON
   Range ⇨ 10 µs/DIV
   Test Point: TP34/EX-627 for DA-130/P, GND: TP33/EX-627 for DA-130/P
   TRIG: HD; TP86/EX-627 for DA-130/P
   Adjustment Point: A: ⊘RV4 (SYNC LEVEL)/ DA-130/P
   B: ⊘RV5 (BLACK CLIP)/ DA-130/P
   C: ⊘RV1 (Y LEVEL)/ DA-130/P

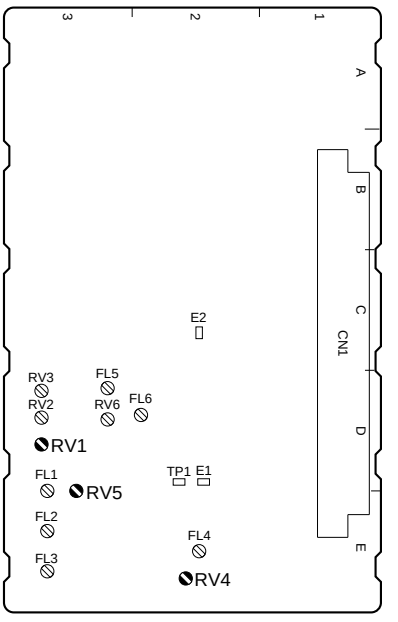
Specifications:	NTSC	PAL
	A = 571 ± 10 mV	A = 600 ± 10 mV
	B = 107 ± 10 mV	B = 0 ± 10 mV
	C = 1429 ± 10 mV	C = 1400 ± 10 mV



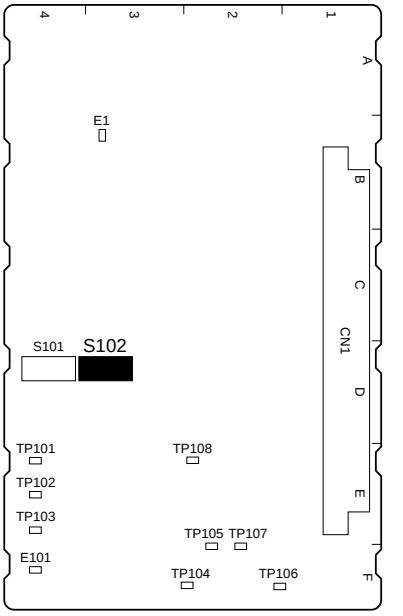
(NTSC)



(PAL)



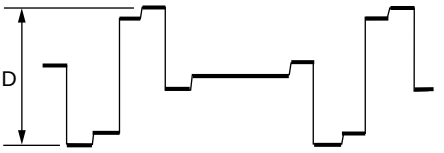
DA-130/P BOARD (A SIDE)



RE-153 BOARD (A SIDE)

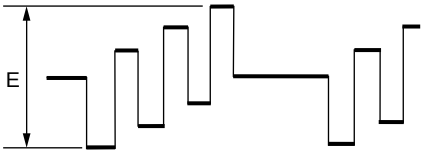
2. R-Y Level Adjustment

Equipment: Oscilloscope
Setting: 20 MHz B/W LIMIT ⇨ ON
Range ⇨ 10 µs/DIV
Test Point: TP32/EX-627 for DA-130/P, GND: TP31/EX-627 for DA-130/P
TRIG: HD; TP86/EX-627 for DA-130/P
Adjustment Point: ⊘RV2 (R-Y LEVEL)/ DA-130/P
Specifications: NTSC PAL
D = 1400 ±20 mV D = 1050 ±20 mV



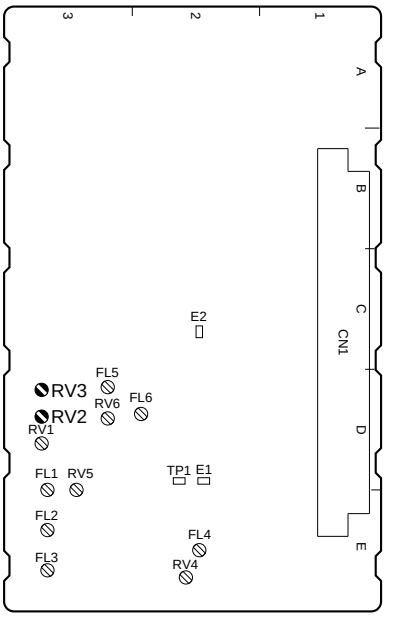
3. B-Y Level Adjustment

Equipment: Oscilloscope
Setting: 20 MHz B/W LIMIT ⇨ ON
Range ⇨ 10 µs/DIV
Test Point: TP30/EX-627 for DA-130/P, GND: TP29/EX-627 for DA-130/P
TRIG: HD; TP86/EX-627 for DA-130/P
Adjustment Point: ⊘RV3 (B-Y LEVEL)/ DA-130/P
Specifications: NTSC PAL
E = 1400 ±20 mV E = 1050 ±20 mV

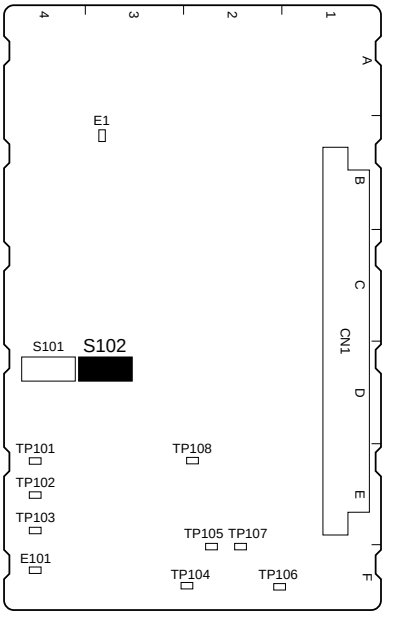


Notes in Finishing Adjustment

• S102-1/RE-153 ⇨ OFF



DA-130/P BOARD (A SIDE)

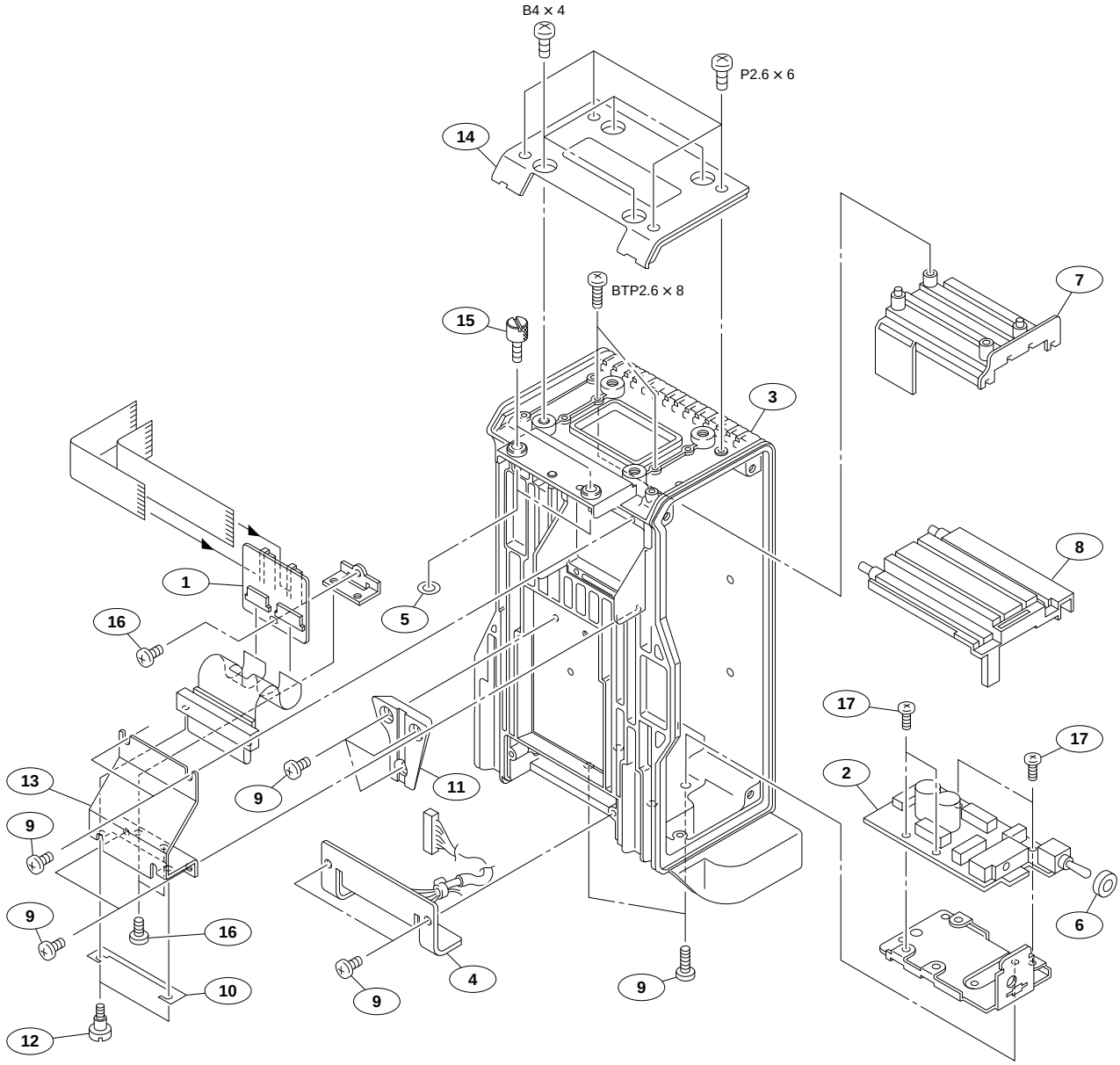


RE-153 BOARD (A SIDE)

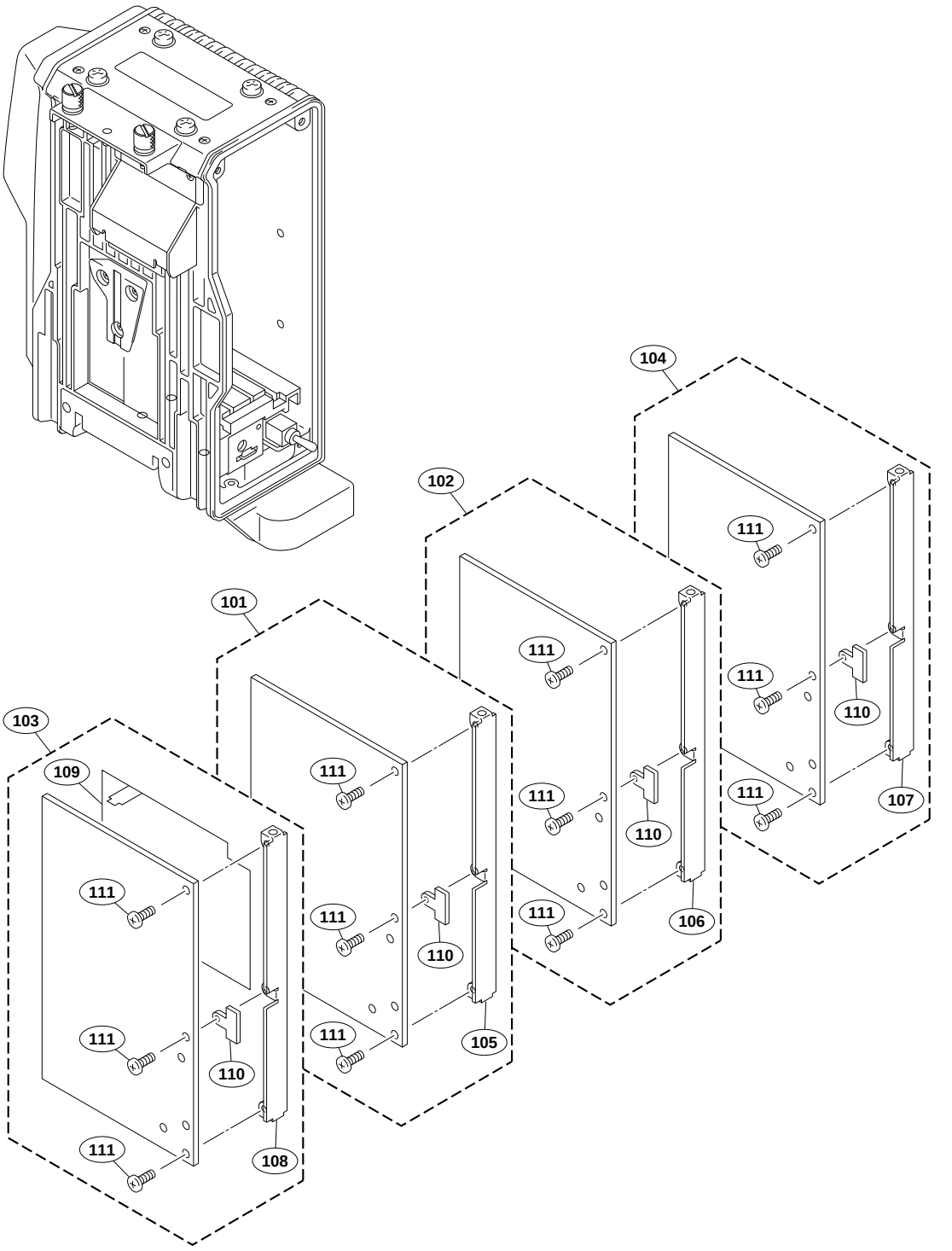
http://getMANUAL.com

Section 3
Spare Parts

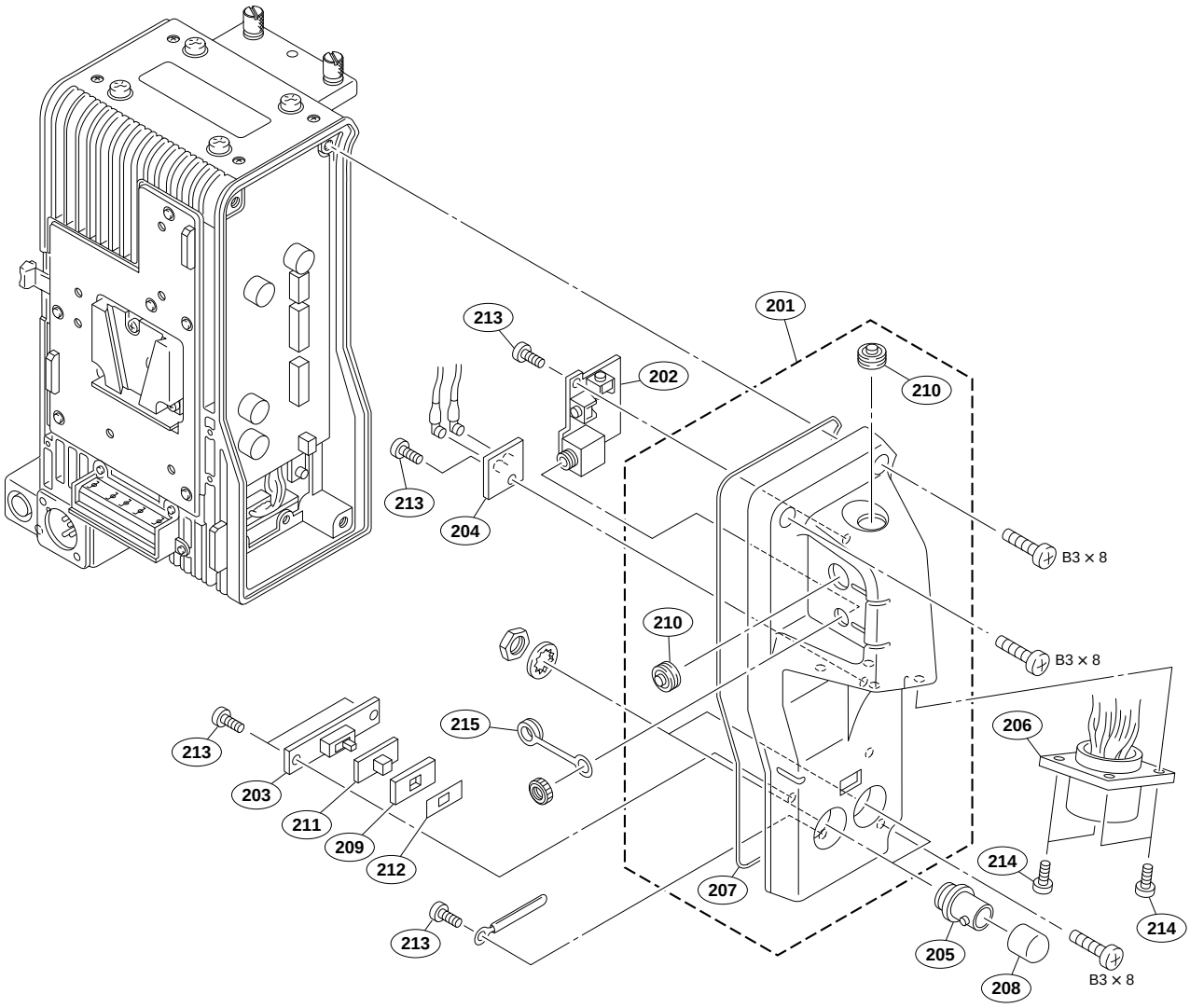
3-1. Exploded Views



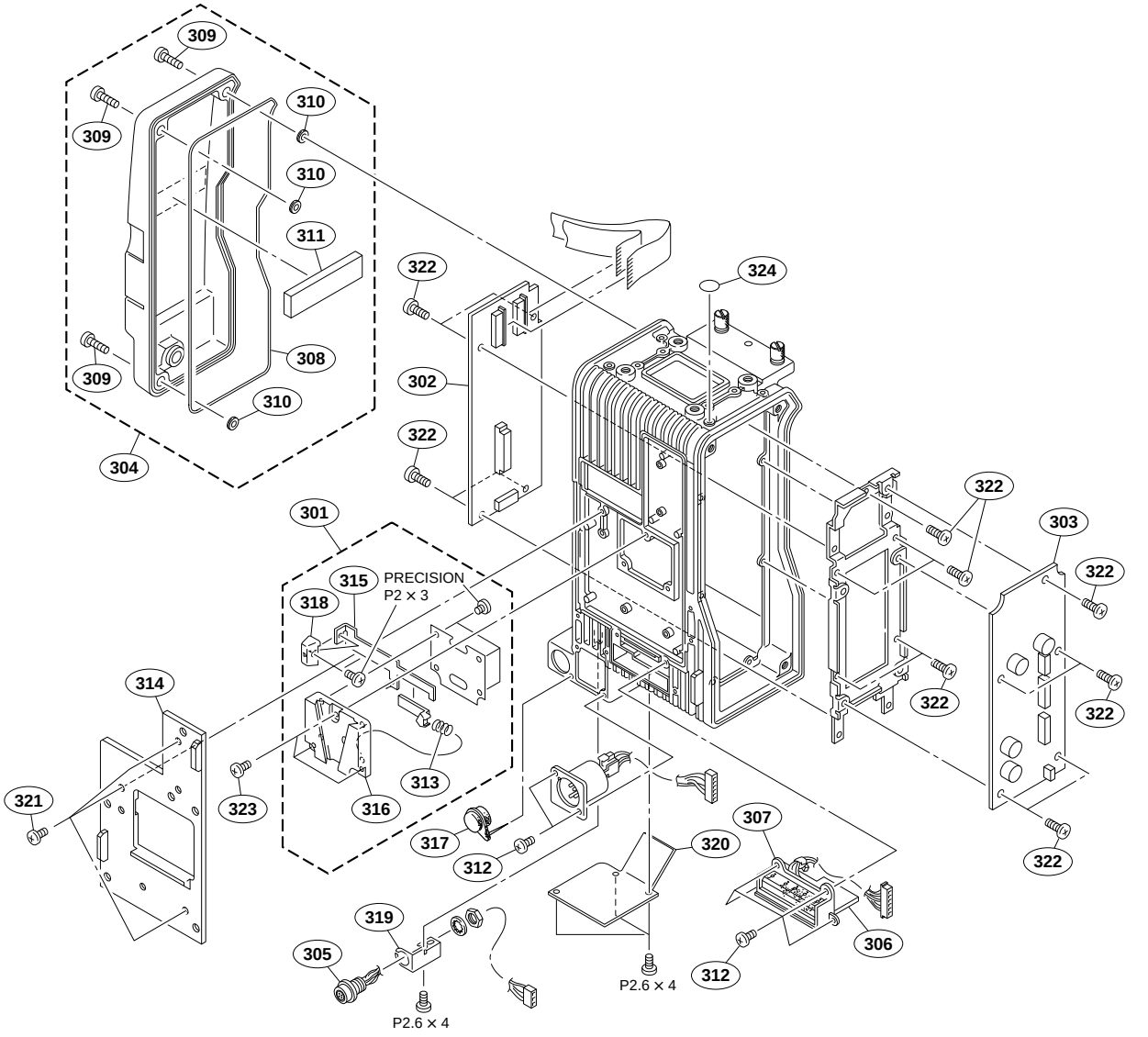
No.	Part No.	SP	Description
1	A-8317-758-A	o	MOUNTED CIRCUIT BOARD, HN-252
2	A-8317-760-A	o	MOUNTED CIRCUIT BOARD, PS-501
3	X-3678-501-2	o	CHASSIS SUB ASSY,MAIN
4	1-774-841-11	s	CONNECTOR, BATTERY
5	3-601-846-01	s	RING O
6	3-608-189-01	o	SHEET,DROP PROTECT(SW)
7	3-612-437-01	o	GUIDE(UPPER),PWB
8	3-612-438-01	o	GUIDE(LOWER),PWB
9	3-612-444-01	s	TYPE1, PRECISION +P2.6X6
10	3-612-656-01	o	SHEET(40P)
11	3-686-350-02	o	SHUE(3)
12	3-686-367-02	s	SCREW,STEP
13	3-695-260-02	o	BRACKET,40PIN
14	3-695-276-02	o	LID(TOP)
15	3-717-914-01	s	SCREW, FIXING
16	3-729-061-01	s	SCREW M2X4.5, TYPE 1
17	3-729-076-11	s	SCREW +B 2X4
	7-627-556-78	s	SCREW PRECISION +P 2.6X6 TYPE 1
	7-682-558-09	s	SCREW +B 4X4
	7-685-534-19	s	SCREW +BTP 2.6X8 TYPE2 N-S



No.	Part No.	SP	Description
101	A-8317-805-A	o	MOUNTED CIRCUIT BOARD, AD-150 (for CA-702)
	A-8317-809-A	o	MOUNTED CIRCUIT BOARD, AD-150/P(for CA-702P)
102	A-8317-806-A	o	MOUNTED CIRCUIT BOARD, DA-130 (for CA-702)
	A-8317-810-A	o	MOUNTED CIRCUIT BOARD, DA-130/P(for CA-702P)
103	A-8317-807-A	o	MOUNTED CIRCUIT BOARD, RE-153
104	A-8317-808-A	o	MOUNTED CIRCUIT BOARD, DIF-67
105	3-612-434-01	o	PLATE(AD),ORNAMENTAL
106	3-612-435-01	o	PLATE(DA),ORNAMENTAL
107	3-612-436-01	o	PLATE(DIF),ORNAMENTAL
108	3-612-448-01	o	PLATE(RE),ORNAMENTAL
109	3-612-871-01	o	SHILD(RE)
110	3-724-753-01	o	RING
111	3-729-061-01	s	SCREW M2X4.5, TYPE 1



No.	Part No.	SP	Description
201	X-3604-526-1	o	PANEL SUB ASSY,OUTSIDE
202	1-668-756-11	o	PRINTED WIRING BOARD, CN-1529
203	1-668-759-11	o	PRINTED WIRING BOARD, SW-924
204	1-668-761-11	o	PRINTED WIRING BOARD, DU-31
205	1-784-240-11	s	CONVERTER, COAXIAL CONNECTOR
206	1-958-334-11	o	HARNESS (CCZ)
207	3-190-628-01	s	TUBE,SHIELD
208	3-604-795-01	s	CAP BNC
209	3-612-447-01	o	RUBBER(SLIDE),DROP PRPTECTION
210	3-676-244-00	s	COVER, SWITCH
211	3-724-728-01	s	KNOB (DL), SW
212	3-729-044-01	s	SHEET, SLIDE
213	3-729-076-11	s	SCREW +B 2X4
214	3-742-074-01	s	SCREW +B 3X6
215	3-849-405-00	s	COVER, EARPHONE JACK
	7-682-548-09	s	SCREW +B 3X8



No.	Part No.	SP	Description
301	A-8278-025-C	s	MOUNT,V ASSY
302	A-8317-751-A	o	MOUNTED CIRCUIT BOARD, MB-766
303	A-8317-756-A	o	MOUNTED CIRCUIT BOARD, CN-1528
304	X-3604-525-1	o	PANEL ASSY,INSIDE
305	1-565-072-11	s	CONNECTOR, ROUND TYPE (RF) 4P
306	1-668-760-11	o	PRINTED WIRING BOARD, DC-96
307	1-766-377-12	s	CONNECTOR, BATTERY
308	3-190-628-01	s	TUBE,SHIELD
309	3-603-680-01	s	STAINLESS SCREW +B3X12
310	3-603-733-01	s	HOLDER,SCREW
311	3-612-441-01	o	SUPPORT,PWB
312	3-612-444-01	s	TYPE1, PRECISION +P2.6X6
313	3-679-648-02	o	SPRING,COMPRESSION
314	3-679-669-05	o	SPACER
315	3-679-688-02	o	LEVER,RELEASE

No.	Part No.	SP	Description
316	3-679-690-02	o	MOUNT,V
317	3-680-269-01	s	RUBBER(DO),DROP PROTECTION
318	3-680-952-01	o	KNOB,RELEASE LEVER
319	3-695-267-01	o	BRACKET,DC-OUT
320	3-695-273-01	o	LID (BOTTOM)
321	3-729-061-01	s	SCREW M2X4.5, TYPE 1
322	3-729-076-11	s	SCREW +B 2X4
323	3-742-074-01	s	SCREW +B 3X6
324	4-887-429-00	s	SPACER
	7-627-553-38	s	SCREW,PRECISION +P 2X3
	7-627-556-38	s	SCREW +P 2.6X4.0

3-2. Electrical Parts List

AD-150/AD-150P BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8317-805-A	o	MOUNTED CIRCUIT BOARD, AD-150 (for CA-702)
	A-8317-809-A	o	MOUNTED CIRCUIT BOARD, AD-150P (for CA-702P)
1pc	3-612-434-01	o	PLATE(AD),ORNAMENTAL
1pc	3-724-753-01	o	RING
6pcs	3-729-061-01	s	SCREW, M2X4.5, TYPE 1
C1	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C2	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C3	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C4	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C8	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C9	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C10	1-162-908-11	s	CERAMIC, CHIP 3PF 50V
C11	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C12	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C13	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C100	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C102	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C103	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C104	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C105	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C106	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C107	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C108	1-113-642-11	s	TANTALUM, CHIP 47uF 20% 10V
C109	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C110	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C111	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C112	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C113	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C114	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C115	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C116	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C117	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C118	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C119	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C120	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C121	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C122	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C123	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C124	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C125	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C126	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C127	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C128	1-113-642-11	s	TANTALUM, CHIP 47uF 20% 10V
C129	1-113-642-11	s	TANTALUM, CHIP 47uF 20% 10V
C130	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C131	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C132	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C133	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C134	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C135	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C136	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C137	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C138	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C139	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C140	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C141	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C142	1-162-907-11	s	CERAMIC, CHIP 2PF 50V

(AD-150/AD-150P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C143	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C144	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C145	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C146	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C147	1-162-905-11	s	CERAMIC, CHIP 1PF 50V
C148	1-162-965-11	s	CERAMIC, CHIP 0.0015uF 10% 50V
C149	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C150	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C151	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C153	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C154	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C155	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C156	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C157	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C158	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C159	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C160	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C161	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C162	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C163	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C164	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C165	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C166	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C167	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C168	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C169	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C170	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C171	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C172	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C173	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C174	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C176	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C177	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C178	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C179	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C180	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C181	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C182	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C183	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C184	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C185	1-113-642-11	s	TANTALUM, CHIP 47uF 20% 10V
C186	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C187	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C188	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C189	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V (for CA-702)
	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V (for CA-702P)
C190	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V (for CA-702)
	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V (for CA-702P)
C191	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C192	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C193	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C194	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C195	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C196	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C197	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C198	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

(AD-150/AD-150P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C200	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C201	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C203	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C207	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C208	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C209	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C210	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V (for CA-702)
	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V (for CA-702P)
C211	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C212	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C213	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C215	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C216	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C217	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C218	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C219	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C220	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C221	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C222	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C223	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C224	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C226	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C227	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C228	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C229	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C231	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C232	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C234	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C235	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C236	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C237	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C238	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C239	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C240	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C241	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C242	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C243	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C244	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C246	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C247	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C248	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C249	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C250	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C251	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C252	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C253	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C254	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C255	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C256	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C257	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C258	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C259	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C260	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C261	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C262	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

(AD-150/AD-150P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C263	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C264	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C265	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C266	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C267	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C268	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C269	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C270	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C271	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C272	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C273	1-162-918-11	s	CERAMIC, CHIP 18PF 5% 50V
C274	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C275	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C276	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C279	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C280	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C282	1-113-642-11	s	TANTALUM, CHIP 47uF 20% 10V
C283	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C284	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C285	1-104-563-11	s	FILM, CHIP 0.1uF 5% 16V
C286	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C287	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C289	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C292	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C295	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C296	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C299	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C300	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C301	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C302	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C303	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
C310	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C400	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C401	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C402	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C403	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C404	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C405	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C406	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C407	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C408	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C409	1-162-910-11	s	CERAMIC, CHIP 5PF 50V
C410	1-104-559-11	s	FILM, CHIP 0.047uF 5% 16V
C411	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C412	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C413	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C414	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C415	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C416	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C417	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C418	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C419	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C420	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C421	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C422	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C423	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C424	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C425	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C426	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

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Ref. No. or Q'ty	Part No.	SP	Description
C427	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C428	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C429	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V (for CA-702)
C431	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C432	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C433	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C434	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C435	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C436	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C437	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C439	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C440	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C441	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C442	1-104-852-11	s	TANTALUM, CHIP 22uF 20% 10V
C443	1-104-852-11	s	TANTALUM, CHIP 22uF 20% 10V
C444	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C446	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C448	1-113-991-11	s	TANTALUM, CHIP 33uF 20% 16V
C449	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C450	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C451	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C452	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C453	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C454	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C455	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C457	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C459	1-162-924-11	s	CERAMIC 56PF 5% 50V
C460	1-162-964-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C464	1-162-905-11	s	CERAMIC, CHIP 1PF 50V
C465	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C466	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C467	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C468	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C470	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C471	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C472	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C473	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
CP1	1-767-696-11	s	VCO, CRYSTAL 35.46895MHz
CP2	1-767-695-21	s	VCO, CRYSTAL 27MHz
D1	8-719-820-41	s	DIODE 1SS302
D2	8-719-820-41	s	DIODE 1SS302
D3	8-719-820-41	s	DIODE 1SS302
D4	8-719-948-48	s	DIODE HSM88AS-TL
D6	8-719-820-41	s	DIODE 1SS302
D9	8-719-820-41	s	DIODE 1SS302
D10	8-719-820-41	s	DIODE 1SS302
DL1	1-234-091-11	s	FILTER, LOW-PASS
FL1	1-233-739-11	s	FILTER, LOW-PASS
FL2	1-233-709-11	s	FILTER, LOW-PASS
FL3	1-234-062-11	s	FILTER, LOW-PASS
FL4	1-233-738-11	s	FILTER, BANDPASS 4.43MHz
FL5	1-234-092-11	s	FILTER, LOW-PASS
FL6	1-233-705-11	s	FILTER, LOW-PASS
FL7	1-233-705-11	s	FILTER, LOW-PASS
FL8	1-234-090-11	s	FILTER, LOW-PASS

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Ref. No. or Q'ty	Part No.	SP	Description
IC1	8-759-080-08	s	IC TC74VHC595FS(EL)
IC2	8-752-376-32	s	IC CXD2310AR
IC3	8-759-180-08	s	IC TC74HC4538AFS
IC4	8-752-386-51	s	IC CXD3122R
IC5	8-752-356-44	s	IC CXD2306Q
IC6	8-729-025-54	s	TRANSISTOR SI9958DY
IC7	8-752-372-78	s	IC CXD2024AQ
IC8	8-729-025-54	s	TRANSISTOR SI9958DY
IC9	8-759-066-59	s	IC TC74HC4053AFS
IC10	8-759-463-81	s	IC TLC2272CPW-E05
IC11	8-759-066-68	s	IC REF-03GS
IC12	8-759-254-49	s	IC EL4581CS-TE2
IC13	8-759-257-96	s	IC TC7S14FU(TE85R)
IC14	8-759-489-49	s	IC TLC2262CPW-E05
IC15	8-759-062-66	s	IC TC7S66F
IC16	8-759-079-63	s	IC TC74VHC86FS(EL)
IC17	8-752-376-32	s	IC CXD2310AR
IC18	8-759-489-49	s	IC TLC2262CPW-E05
IC19	8-759-488-29	s	IC TC7W66FU(TE12R)
IC20	8-759-079-63	s	IC TC74VHC86FS(EL)
IC21	8-752-376-32	s	IC CXD2310AR
IC22	8-759-489-49	s	IC TLC2262CPW-E05
IC23	8-752-376-32	s	IC CXD2310AR
IC24	8-759-079-63	s	IC TC74VHC86FS(EL)
IC25	8-759-079-67	s	IC TC74VHC125FS(EL)
IC26	8-759-447-77	s	IC TC7WH74FU(TE12R)
IC27	8-759-079-74	s	IC TC74VHC157FS(EL)
IC28	8-759-080-06	s	IC TC74VHC574FS(EL)
IC29	8-759-196-93	s	IC TC7SH00FU-TE85R
IC30	8-759-196-96	s	IC TC7SH08FU-TE85R
IC31	8-759-488-34	s	IC TLV2221CDBV2
IC32	8-752-363-60	s	IC CXD2307R-T6
IC33	8-759-066-59	s	IC TC74HC4053AFS
IC34	8-759-082-61	s	IC TC4W53FU
IC35	8-759-488-34	s	IC TLV2221CDBV2
IC36	8-759-488-34	s	IC TLV2221CDBV2
IC37	8-759-488-34	s	IC TLV2221CDBV2
IC38	8-759-392-01	s	IC TC7SH86FU-TE85R
IC39	8-759-196-96	s	IC TC7SH08FU-TE85R
IC40	8-759-054-61	s	IC CLC505AJE
IC41	8-759-080-06	s	IC TC74VHC574FS(EL)
IC42	8-759-271-86	s	IC TC7SH04FU
IC43	8-759-295-09	s	IC TLC2932IPW
IC44	8-759-080-08	s	IC TC74VHC595FS(EL)
IC45	8-759-080-06	s	IC TC74VHC574FS(EL)
IC46	8-759-080-06	s	IC TC74VHC574FS(EL)
IC47	8-759-079-61	s	IC TC74VHC74FS(EL)
IC48	8-759-271-86	s	IC TC7SH04FU (for CA-702)
IC49	8-759-079-46	s	IC TC74VHC00FS(EL)
IC50	8-759-488-29	s	IC TC7W66FU(TE12R)
IC52	8-759-488-34	s	IC TLV2221CDBV2
IC53	8-759-254-49	s	IC EL4581CS-TE2
IC54	8-759-079-81	s	IC TC74VHC221AFS(EL)
IC55	8-759-271-86	s	IC TC7SH04FU
IC56	8-759-335-29	s	IC MAX942CSA
IC57	8-759-271-86	s	IC TC7SH04FU
IC58	8-759-488-29	s	IC TC7W66FU(TE12R)
IC59	8-759-295-09	s	IC TLC2932IPW
IC60	8-759-066-59	s	IC TC74HC4053AFS

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Ref. No. or Q'ty	Part No.	SP	Description
IC61	8-759-295-09	s	IC TLC2932IPW (for CA-702P)
IC62	8-759-463-81	s	IC TLC2272CPW-E05
IC63	8-759-338-95	s	IC NJM2903V(TE2) (for CA-702P)
IC64	8-759-392-01	s	IC TC7SH86FU-TE85R (for CA-702P)
IC65	8-759-447-77	s	IC TC7WH74FU(TE12R)
IC66	8-759-295-09	s	IC TLC2932IPW
IC67	8-759-335-29	s	IC MAX942CSA
IC68	8-759-175-66	s	IC CXD8817Q
IC69	8-759-196-93	s	IC TC7SH00FU-TE85R
IC70	8-759-079-81	s	IC TC74VHC221AFS(EL)
IC71	8-759-488-34	s	IC TLV2221CDBV2
IC72	8-759-079-81	s	IC TC74VHC221AFS(EL)
IC73	8-759-271-86	s	IC TC7SH04FU
IC74	8-759-196-96	s	IC TC7SH08FU-TE85R
IC75	8-759-196-93	s	IC TC7SH00FU-TE85R
IC76	8-759-271-86	s	IC TC7SH04FU
IC77	8-759-196-93	s	IC TC7SH00FU-TE85R
IC78	8-759-080-06	s	IC TC74VHC574FS(EL)
IC79	8-759-079-61	s	IC TC74VHC74FS(EL)
IC80	8-759-082-61	s	IC TC4W53FU
IC81	8-759-338-95	s	IC NJM2903V(TE2)
IC82	8-759-489-49	s	IC TLC2262CPW-E05
IC83	8-759-271-84	s	IC TC7SH02FU
IC84	8-759-196-97	s	IC TC7SH32FU-TE85R
IC85	8-759-196-97	s	IC TC7SH32FU-TE85R
IC86	8-759-489-49	s	IC TLC2262CPW-E05
L2	1-424-643-11	s	COIL, CHOKE 10uH
L3	1-424-643-11	s	COIL, CHOKE 10uH
L4	1-424-643-11	s	COIL, CHOKE 10uH
Q1	8-729-014-93	s	TRANSISTOR 2SB1440S-TX
Q2	8-729-014-93	s	TRANSISTOR 2SB1440S-TX
Q3	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q4	8-729-141-48	s	TRANSISTOR 2SB624-BV345
Q5	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q6	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q7	8-729-403-32	s	TRANSISTOR XN6534
Q8	8-729-403-29	s	TRANSISTOR XN6435
Q9	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q10	8-729-403-29	s	TRANSISTOR XN6435
Q11	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q12	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q13	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q14	8-729-403-32	s	TRANSISTOR XN6534
Q15	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q16	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q17	8-729-402-19	s	TRANSISTOR XN6501
Q18	8-729-403-32	s	TRANSISTOR XN6534
Q19	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q20	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q21	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q22	8-729-403-32	s	TRANSISTOR XN6534
Q23	8-729-403-32	s	TRANSISTOR XN6534
Q24	8-729-403-32	s	TRANSISTOR XN6534
Q25	8-729-403-32	s	TRANSISTOR XN6534
Q26	8-729-403-29	s	TRANSISTOR XN6435
Q41	8-729-403-32	s	TRANSISTOR XN6534
Q42	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q43	8-729-403-29	s	TRANSISTOR XN6435

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Ref. No. or Q'ty	Part No.	SP	Description
Q48	8-729-403-29	s	TRANSISTOR XN6435
Q53	8-729-403-29	s	TRANSISTOR XN6435
Q55	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q56	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q57	8-729-403-32	s	TRANSISTOR XN6534
Q58	8-729-142-90	s	TRANSISTOR 2SK853-K5
Q200	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
R1	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R2	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R3	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R4	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R5	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R6	1-218-672-11	s	METAL, CHIP 150 0.5% 1/16W (for CA-702)
	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W (for CA-702P)
R7	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R8	1-218-672-11	s	METAL, CHIP 150 0.5% 1/16W (for CA-702)
	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W (for CA-702P)
R9	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R10	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R11	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R13	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R14	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R15	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R16	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R17	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R18	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R19	1-216-863-11	s	METAL, CHIP 3.3M 5% 1/16W
R20	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R21	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R23	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R25	1-216-863-11	s	METAL, CHIP 3.3M 5% 1/16W
R27	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R28	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R30	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R31	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R33	1-218-672-11	s	METAL, CHIP 150 0.5% 1/16W (for CA-702)
	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W (for CA-702P)
R34	1-216-863-11	s	METAL, CHIP 3.3M 5% 1/16W
R35	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R36	1-218-712-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R37	1-218-682-11	s	METAL, CHIP 390 0.5% 1/16W (for CA-702)
	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W (for CA-702P)
R38	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R41	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R44	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R45	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R47	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W (for CA-702)
R48	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W (for CA-702)
R51	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R52	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R53	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R54	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R55	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R100	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R101	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R102	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R103	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R104	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R105	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W
R106	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W
R107	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R108	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R109	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R110	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R111	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R112	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R113	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R114	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R117	1-218-723-11	s	METAL, CHIP 20K 0.5% 1/16W
R118	1-218-670-11	s	METAL, CHIP 120 0.5% 1/16W
R119	1-216-855-11	s	METAL, CHIP 680K 5% 1/16W
R120	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R121	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R122	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R123	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R124	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R125	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R126	1-218-684-11	s	METAL, CHIP 470 0.50% 1/16W
R127	1-218-672-11	s	METAL, CHIP 150 0.5% 1/16W
R128	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R129	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R130	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R131	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R132	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R133	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R134	1-218-704-11	s	METAL, CHIP 3.3k 0.50% 1/16W
R135	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R136	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R145	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W
R148	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R149	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R150	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R151	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R152	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R153	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R154	1-216-864-11	s	METAL, CHIP 0 5% 1/16W (for CA-702)
R155	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R156	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R157	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R158	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R159	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W (for CA-702)
	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W (for CA-702P)
R160	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R161	1-218-674-11	s	METAL, CHIP 180 0.5% 1/16W
R162	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R163	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R164	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W

(AD-150/AD-150P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R165	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R166	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R167	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R168	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R169	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R170	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R171	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R172	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R173	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R174	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R175	1-218-694-11	s	METAL, CHIP 1.2K 0.5% 1/16W (for CA-702)
	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W (for CA-702P)
R176	1-216-864-11	s	METAL, CHIP 0 5% 1/16W (for CA-702)
	1-218-678-11	s	METAL, CHIP 270 0.5% 1/16W (for CA-702P)
R177	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R178	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R179	1-218-712-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R180	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R181	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R182	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R183	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W (for CA-702)
	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W (for CA-702P)
R184	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R185	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R186	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R187	1-218-680-11	s	METAL, CHIP 330 0.50% 1/16W
R188	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R189	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R190	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R191	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R192	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R193	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R194	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R196	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R197	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R199	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R200	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R203	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R206	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W
R207	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R208	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R209	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R210	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R211	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R212	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R213	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R214	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R215	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R216	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R217	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R218	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R219	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R220	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R221	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R222	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R224	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R226	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R227	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R228	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W
R229	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R233	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R234	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W (for CA-702)
R235	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R236	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W
R237	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R238	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R239	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R240	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R241	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R242	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R243	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R244	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R245	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R246	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R247	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R248	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R249	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R250	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R251	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W
R256	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R257	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W
R258	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R259	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R260	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R261	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R262	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R263	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R266	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R270	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R271	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R272	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R273	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R274	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R277	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R278	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R279	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R280	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R281	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R282	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R283	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R284	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R285	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R286	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R287	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R288	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R289	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R290	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R291	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R292	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R293	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R294	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R295	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R296	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R297	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R298	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R299	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R303	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R304	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R305	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R306	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R307	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R308	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R309	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R310	1-218-694-11	s	METAL, CHIP 1.2K 0.5% 1/16W
R311	1-218-712-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R312	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R313	1-218-686-11	s	METAL, CHIP 560 0.5% 1/16W
R314	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R315	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R316	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R317	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R318	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R319	1-218-687-11	s	METAL, CHIP 620 0.5% 1/16W
R320	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R321	1-218-687-11	s	METAL, CHIP 620 0.5% 1/16W
R322	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R333	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R336	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R337	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R338	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R339	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R340	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R341	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R342	1-218-687-11	s	METAL, CHIP 620 0.5% 1/16W
R343	1-218-687-11	s	METAL, CHIP 620 0.5% 1/16W
R350	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R352	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W (for CA-702)
R353	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W (for CA-702P)
R354	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W (for CA-702P)
R355	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R356	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R357	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R358	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R359	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R360	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R361	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R362	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R363	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R368	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R370	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R371	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R372	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R373	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R374	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R375	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R376	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R377	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R378	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R379	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R380	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R381	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R382	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R383	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R384	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R385	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R386	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R387	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R388	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R390	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R391	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W
R392	1-218-686-11	s	METAL, CHIP 560 0.5% 1/16W
R393	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R394	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R395	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R396	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R399	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R400	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R401	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R402	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R403	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R404	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R405	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R406	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R407	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R408	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W (for CA-702)
	1-218-678-11	s	METAL, CHIP 270 0.5% 1/16W (for CA-702P)
R409	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W (for CA-702)
	1-218-734-11	s	METAL, CHIP 56K 0.5% 1/16W (for CA-702P)
R410	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R411	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R412	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R413	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R414	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R415	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R416	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R417	1-218-734-11	s	METAL, CHIP 56K 0.5% 1/16W
R418	1-218-734-11	s	METAL, CHIP 56K 0.5% 1/16W
R419	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R420	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R421	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R422	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R423	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R424	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R425	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R426	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R427	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R428	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R429	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R431	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R432	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W (for CA-702P)
R433	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W (for CA-702)

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Ref. No. or Q'ty	Part No.	SP	Description
R434	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R435	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R436	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R437	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R438	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R439	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R440	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R441	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R442	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W (for CA-702P)
R443	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R444	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R445	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R446	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R447	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R448	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R449	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W (for CA-702P)
R451	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R452	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W (for CA-702)
R453	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W (for CA-702P)
R454	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R455	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R456	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R457	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R458	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R459	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W (for CA-702)
	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W (for CA-702P)
R460	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R461	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R462	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R465	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R466	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R467	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W (for CA-702P)
R468	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W (for CA-702)
R469	1-218-714-11	s	METAL, CHIP 8.2K 0.5% 1/16W
R470	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R471	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R472	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R473	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R474	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R475	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R476	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R477	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R478	1-216-855-11	s	METAL, CHIP 680K 5% 1/16W
R479	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R480	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R481	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R482	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R483	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R484	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R485	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R486	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R487	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W

(AD-150/AD-150P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R488	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R489	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R490	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R491	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R492	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R493	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R494	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R495	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R496	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R497	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R498	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R499	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R500	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
RB1	1-236-904-11	s	NETWORK RESISTOR, CHIP 1.0K
RB2	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB3	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB4	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB5	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RV1	1-237-032-11	s	RES, ADJ METAL 500
RV2	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702)
RV3	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702)
	1-237-035-11	s	RES, ADJ METAL 5K (for CA-702P)
RV4	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702)
RV5	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702)
	1-237-035-11	s	RES, ADJ METAL 5K (for CA-702P)
RV6	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702)
RV7	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702)
	1-237-035-11	s	RES, ADJ METAL 5K (for CA-702P)
RV8	1-237-032-11	s	RES, ADJ METAL 500
RV10	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702)
	1-237-035-11	s	RES, ADJ METAL 5K (for CA-702P)
RV11	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702)
RV12	1-237-028-11	s	RES, ADJ, CERMET 20
RV13	1-237-036-11	s	RES, ADJ METAL 10K
S1	1-570-711-11	s	SWITCH, SLIDE

CN-1176 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8274-768-A	o	MOUNTED PWB, CN-1176

CN-1528 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8317-756-A	o	MOUNTED CIRCUIT BOARD, CN-1528
C1	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C2	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C3	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C4	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C5	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C6	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C8	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C11	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C12	1-107-781-11	s	ELECT 47uF 20% 16V
C13	1-107-781-11	s	ELECT 47uF 20% 16V
C14	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C15	1-104-478-11	s	TANTALUM, CHIP 10uF 20% 35V
C16	1-104-478-11	s	TANTALUM, CHIP 10uF 20% 35V
C18	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C19	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C20	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C22	1-165-176-11	s	CERAMIC, CHIP 0.047uF 10% 16V
C24	1-128-414-21	s	ELECT, CHIP 220uF 20% 6.3V
C25	1-128-414-21	s	ELECT, CHIP 220uF 20% 6.3V
C30	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C31	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C32	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C33	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C34	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C35	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C36	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C37	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C38	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
CN10	1-766-376-11	o	CONNECTOR, 9P, MALE
CN11	1-766-382-11	o	CONNECTOR, 10P, MALE
CN12	1-573-768-21	s	CONNECTOR, 5P, MALE
CN13	1-695-320-21	o	CONNECTOR, 2P, MALE
D1	8-719-820-41	s	DIODE 1SS302
D2	8-719-820-41	s	DIODE 1SS302
D3	8-719-820-41	s	DIODE 1SS302
D4	8-719-820-41	s	DIODE 1SS302
D5	8-719-820-41	s	DIODE 1SS302
D6	8-719-820-41	s	DIODE 1SS302
D9	8-719-820-41	s	DIODE 1SS302
D10	8-719-820-41	s	DIODE 1SS302
D11	8-719-820-41	s	DIODE 1SS302
D12	8-719-820-41	s	DIODE 1SS302
D13	8-719-820-41	s	DIODE 1SS302
D14	8-719-820-41	s	DIODE 1SS302
D15	8-719-029-63	s	DIODE RD4.3UH-T1
D16	8-719-029-63	s	DIODE RD4.3UH-T1
FL1	1-234-011-21	s	FILTER, EMI
FL2	1-234-011-21	s	FILTER, EMI
FL3	1-234-011-21	s	FILTER, EMI
FL4	1-239-895-11	s	FILTER, CHIP EMI
FL5	1-239-895-11	s	FILTER, CHIP EMI
FL6	1-239-895-11	s	FILTER, CHIP EMI
FL7	1-239-895-11	s	FILTER, CHIP EMI
FL8	1-239-895-11	s	FILTER, CHIP EMI
FL9	1-234-011-21	s	FILTER, EMI
FL10	1-239-895-11	s	FILTER, CHIP EMI

(CN-1528 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
FL11	1-239-895-11	s	FILTER, CHIP EMI
FL12	1-239-895-11	s	FILTER, CHIP EMI
FL13	1-239-895-11	s	FILTER, CHIP EMI
FL14	1-239-895-11	s	FILTER, CHIP EMI
FL15	1-239-895-11	s	FILTER, CHIP EMI
IC1	8-759-173-16	s	IC TL062CPW
IC2	8-759-700-94	s	IC NJM5532M
IC3	8-759-700-50	s	IC NJM386M
IC4	8-759-082-61	s	IC TC4W53FU
IC5	8-759-710-88	s	IC NJM431U
L1	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L2	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L3	1-410-393-11	s	INDUCTOR, CHIP 100uH
Q1	8-729-041-23	s	TRANSISTOR NDS356AP
Q2	8-729-041-24	s	TRANSISTOR NDS355AN
Q3	8-729-141-48	s	TRANSISTOR 2SB624-BV345
Q4	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q5	8-729-041-24	s	TRANSISTOR NDS355AN
R5	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R6	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R7	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R8	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R9	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R10	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R11	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R12	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R13	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R14	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R15	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R16	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R17	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R18	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R19	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R20	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R22	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R23	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R24	1-218-685-11	s	METAL, CHIP 510 0.5% 1/16W
R25	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R26	1-218-685-11	s	METAL, CHIP 510 0.5% 1/16W
R27	1-218-644-11	s	METAL, CHIP 10 0.5% 1/16W
R28	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R31	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R32	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R40	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R41	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R43	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R44	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R45	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R46	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R47	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
S1	1-572-328-11	s	SWITCH, DIGITAL

CN-1529 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-668-756-11	o	PRINTED WIRING BOARD, CN-1529
C1	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C2	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
C3	1-164-695-11	s	CERAMIC 0.0022uF 5% 50V
CN14	1-573-768-21	s	CONNECTOR, 5P, MALE
FL1	1-239-895-11	s	FILTER, CHIP EMI
FL2	1-239-895-11	s	FILTER, CHIP EMI
FL3	1-239-895-11	s	FILTER, CHIP EMI
J1	1-507-980-41	s	JACK, MINI
R1	1-216-295-91	s	RES, CHIP 0
R2	1-216-295-91	s	RES, CHIP 0
R5	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R6	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R7	1-216-295-91	s	RES, CHIP 0
R8	1-216-295-91	s	RES, CHIP 0
R9	1-216-295-91	s	RES, CHIP 0
S1	1-554-088-00	s	SWITCH, TACTILE
S2	1-554-088-00	s	SWITCH, TACTILE

DA-130/DA-130P BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8317-806-A	o	MOUNTED CIRCUIT BOARD, DA-130 (for CA-702)
	A-8317-810-A	o	MOUNTED CIRCUIT BOARD, DA-130P (for CA-702P)
1pc	3-612-435-01	o	PLATE(DA),ORNAMENTAL
1pc	3-724-753-01	o	RING
6pcs	3-729-061-01	s	SCREW, M2X4.5, TYPE 1
C1	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C2	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C3	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C4	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C5	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C6	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C7	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C8	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C9	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C10	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C11	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C12	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C13	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C14	1-162-970-11	s	CERAMIC, CHIP 0.01uF 10% 25V
C15	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C16	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C17	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C18	1-162-921-11	s	CERAMIC, CHIP 33PF 5% 50V
C20	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C22	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C23	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C24	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C25	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C26	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C27	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C28	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C29	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C30	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C31	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C32	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C33	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C34	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C35	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C36	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C37	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C38	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C39	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C41	1-162-917-11	s	CERAMIC, CHIP 15PF 5% 50V
C42	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C43	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C44	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C45	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C47	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C48	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C49	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C50	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C51	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C52	1-162-919-11	s	CERAMIC, CHIP 22PF 5% 50V
C55	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C56	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C57	1-162-905-11	s	CERAMIC, CHIP 1PF 50V
C58	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

(DA-130/DA-130P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C59	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C60	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C61	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C62	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C63	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C64	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C65	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C68	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C69	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C70	1-162-925-11	s	CERAMIC, CHIP 68PF 5% 50V
C71	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C74	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C75	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C76	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C78	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C81	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C82	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C83	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C84	1-162-905-11	s	CERAMIC, CHIP 1PF 50V
C85	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C86	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C87	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C88	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C89	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C91	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C92	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C93	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C94	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C95	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C96	1-162-905-11	s	CERAMIC, CHIP 1PF 50V
C97	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C98	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C99	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C100	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C101	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C102	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C103	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C104	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C105	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C106	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C107	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C108	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C109	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C110	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C111	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C112	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C113	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C114	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C116	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C117	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C118	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C129	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C131	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C135	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C136	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C140	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C142	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C143	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C150	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V

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Ref. No. or Q'ty	Part No.	SP	Description
C151	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C152	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C153	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C154	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C155	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C156	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C157	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C158	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C159	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C160	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C161	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C162	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C163	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C165	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C166	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C167	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C170	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C171	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C173	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C174	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C175	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C177	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C178	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C179	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C184	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C185	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C186	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C200	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C201	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C202	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C203	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C205	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C207	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C220	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C221	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C224	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C225	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C230	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C239	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C240	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C243	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C244	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C245	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C246	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C247	1-162-905-11	s	CERAMIC, CHIP 1PF 50V
C248	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C249	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C250	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C251	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C400	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C401	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C402	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C403	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C404	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C406	1-113-994-11	s	TANTALUM, CHIP 6.8uF 20% 16V
C407	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C408	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C409	1-113-994-11	s	TANTALUM, CHIP 6.8uF 20% 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C410	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C411	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C414	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C416	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C417	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C418	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C420	1-104-543-11	s	FILM, CHIP 0.0022uF 5% 50V
C421	1-104-539-11	s	FILM, CHIP 0.001uF 5% 50V
C450	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C451	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C452	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C453	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C454	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C455	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C456	1-135-177-21	s	TANTALUM, CHIP 1uF 10% 25V
C457	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C458	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C459	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C460	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
CNI19	1-251-352-11	o	SOCKET, IC (PLCC) 68P
D503	8-719-029-63	s	DIODE RD4.3UH-T1
D504	8-719-029-63	s	DIODE RD4.3UH-T1
FB1	1-543-309-21	s	BEAD, FERRITE
FL1	1-234-063-11	s	FILTER, LOW-PASS
FL2	1-234-063-11	s	FILTER, LOW-PASS
FL3	1-234-063-11	s	FILTER, LOW-PASS
FL4	1-234-060-11	s	FILTER, LOW-PASS (for CA-702)
	1-234-061-11	s	FILTER, LOW-PASS (for CA-702P)
FL5	1-234-064-11	s	FILTER, LOW-PASS
FL6	1-234-038-11	s	FILTER, LOW-PASS
IC1	8-759-079-87	s	IC TC74VHC245FS(EL)
IC2	8-759-079-87	s	IC TC74VHC245FS(EL)
IC3	8-759-079-87	s	IC TC74VHC245FS(EL)
IC4	8-759-386-26	s	IC 74LCX574MTCX
IC5	8-759-588-98	s	IC SN74CBT16212ADGGR
IC6	8-759-459-41	s	IC TMS4C2973-26DTR
IC7	8-752-386-51	s	IC CXD3122R
IC8	8-759-421-88	s	IC SN74LVC821APW-E05
IC9	8-759-196-93	s	IC TC7SH00FU-TE85R
IC10	8-759-080-08	s	IC TC74VHC595FS(EL)
IC11	8-759-080-08	s	IC TC74VHC595FS(EL)
IC12	8-759-386-26	s	IC 74LCX574MTCX
IC13	8-752-386-51	s	IC CXD3122R
IC14	8-759-079-87	s	IC TC74VHC245FS(EL)
IC15	8-752-386-51	s	IC CXD3122R
IC16	8-759-080-08	s	IC TC74VHC595FS(EL)
IC17	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC18	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC19	8-759-079-61	s	IC TC74VHC74FS(EL)
IC20	8-752-357-62	s	IC CXD2307R
IC21	8-752-385-90	s	IC CXD1913AQ
IC22	8-759-635-27	s	IC M62352GP
IC23	8-759-079-61	s	IC TC74VHC74FS(EL)
IC24	8-759-196-93	s	IC TC7SH00FU-TE85R
IC25	8-759-079-61	s	IC TC74VHC74FS(EL)
IC26	8-759-196-93	s	IC TC7SH00FU-TE85R

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Ref. No. or Q'ty	Part No.	SP	Description
IC27	8-759-196-93	s	IC TC7SH00FU-TE85R
IC28	8-759-079-49	s	IC TC74VHC04FS(EL)
IC29	8-759-485-79	s	IC TC7SET08FU(TE85L)
IC30	8-759-066-59	s	IC TC74HC4053AFS
IC31	8-759-054-61	s	IC CLC505AJE
IC32	8-759-066-59	s	IC TC74HC4053AFS
IC33	8-759-054-61	s	IC CLC505AJE
IC34	8-759-066-59	s	IC TC74HC4053AFS
IC35	8-759-054-61	s	IC CLC505AJE
IC36	8-759-635-27	s	IC M62352GP
IC37	8-759-485-79	s	IC TC7SET08FU(TE85L)
IC38	8-759-082-61	s	IC TC4W53FU
IC39	8-759-079-52	s	IC TC74VHC08FS(EL)
IC40	8-759-389-26	s	IC 74LCX08MTCX
IC41	8-759-386-26	s	IC 74LCX574MTCX
IC42	8-759-522-49	s	IC SN74CBT3253PW-E05
IC43	8-759-389-26	s	IC 74LCX08MTCX
IC44	8-759-389-26	s	IC 74LCX08MTCX
IC45	8-759-080-08	s	IC TC74VHC595FS(EL)
IC46	8-759-082-61	s	IC TC4W53FU
IC47	8-759-080-08	s	IC TC74VHC595FS(EL)
IC48	8-759-080-08	s	IC TC74VHC595FS(EL)
IC49	8-759-271-84	s	IC TC7SH02FU
IC50	8-759-079-46	s	IC TC74VHC00FS(EL)
IC51	8-759-079-61	s	IC TC74VHC74FS(EL)
IC52	8-759-257-96	s	IC TC7S14FU(TE85R)
IC53	8-759-079-63	s	IC TC74VHC86FS(EL)
IC54	8-752-386-51	s	IC CXD3122R
IC55	8-759-389-26	s	IC 74LCX08MTCX
IC56	8-752-386-51	s	IC CXD3122R
IC57	8-759-080-08	s	IC TC74VHC595FS(EL)
IC58	8-759-271-84	s	IC TC7SH02FU
IC59	8-759-079-73	s	IC TC74VHC153FS(EL)
IC60	8-759-196-96	s	IC TC7SH08FU-TE85R
IC61	8-759-079-87	s	IC TC74VHC245FS(EL)
IC62	8-759-196-93	s	IC TC7SH00FU-TE85R
IC63	8-759-196-93	s	IC TC7SH00FU-TE85R
IC72	8-759-080-02	s	IC TC74VHC541FS(EL)
IC73	8-759-080-08	s	IC TC74VHC595FS(EL)
IC74	8-752-386-51	s	IC CXD3122R
IC76	8-759-089-61	s	IC TC74HC4052AFS(EL)
IC77	8-759-054-61	s	IC CLC505AJE
IC81	8-759-079-46	s	IC TC74VHC00FS(EL)
IC83	8-759-079-61	s	IC TC74VHC74FS(EL)
IC84	8-759-079-61	s	IC TC74VHC74FS(EL)
IC85	8-759-173-16	s	IC TL062CPW
IC86	8-759-344-16	s	IC AK4319-VM-E2
IC87	8-759-700-84	s	IC NJM2041M-D
IC90	8-759-196-93	s	IC TC7SH00FU-TE85R
IC91	8-759-485-79	s	IC TC7SET08FU(TE85L)
IC92	8-759-485-79	s	IC TC7SET08FU(TE85L)
IC93	8-759-485-79	s	IC TC7SET08FU(TE85L)
IC94	8-759-485-79	s	IC TC7SET08FU(TE85L)
IC100	8-759-489-28	s	IC GF9103-CPS
L1	1-424-643-11	s	COIL, CHOKE 10uH
L2	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L3	1-424-643-11	s	COIL, CHOKE 10uH
L4	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L5	1-410-377-31	s	INDUCTOR, CHIP 4.7uH

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Ref. No. or Q'ty	Part No.	SP	Description
L6	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L7	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L8	1-412-282-41	s	INDUCTOR, CHIP 470UH
L9	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L10	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
Q1	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q2	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q3	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q4	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q7	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q8	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
Q9	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q10	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q11	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q12	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q13	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q14	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q17	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q18	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q21	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q30	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q31	8-729-403-32	s	TRANSISTOR XN6534
Q32	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q33	8-729-143-07	s	TRANSISTOR 2SA1610-YY33
Q34	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q35	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q54	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q55	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q56	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q61	8-729-017-10	s	TRANSISTOR 2SJ244JY
Q62	8-729-022-32	s	TRANSISTOR 2SK1579DY-TL
Q70	8-729-141-48	s	TRANSISTOR 2SB624-BV345
Q71	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q72	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
R1	1-218-676-11	s	METAL, CHIP 220 0.50% 1/16W
R2	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R3	1-218-686-11	s	METAL, CHIP 560 0.5% 1/16W
R4	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W (for CA-702)
	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W (for CA-702P)
R5	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R6	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R7	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R8	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R9	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R10	1-218-665-11	s	METAL, CHIP 75 0.5% 1/16W
R11	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W
R12	1-218-672-11	s	METAL, CHIP 150 0.5% 1/16W (for CA-702)
	1-218-670-11	s	METAL, CHIP 120 0.5% 1/16W (for CA-702P)
R13	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R14	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R15	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R16	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R17	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R18	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R19	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R20	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R22	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R23	1-218-699-11	s	METAL, CHIP 2K 0.5% 1/16W
R24	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R25	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R26	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R28	1-218-680-11	s	METAL, CHIP 330 0.50% 1/16W
R29	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R30	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R31	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R32	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R33	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R34	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R37	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R38	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R60	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R61	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R62	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R63	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R65	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R66	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R67	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R68	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R69	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R70	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R71	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R72	1-218-726-11	s	METAL, CHIP 27K 0.5% 1/16W
R73	1-218-726-11	s	METAL, CHIP 27K 0.5% 1/16W
R74	1-218-726-11	s	METAL, CHIP 27K 0.5% 1/16W
R75	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R76	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R77	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R78	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R79	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R80	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W (for CA-702)
	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W (for CA-702P)
R81	1-218-736-11	s	METAL, CHIP 68K 0.5% 1/16W (for CA-702)
	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W (for CA-702P)
R82	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W (for CA-702)
	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W (for CA-702P)
R83	1-218-736-11	s	METAL, CHIP 68K 0.5% 1/16W (for CA-702)
	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W (for CA-702P)
R84	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R85	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R86	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R87	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R88	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R91	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R92	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R93	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R95	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R96	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R99	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R103	1-216-864-11	s	METAL, CHIP 0 5% 1/16W

(DA-130/DA-130P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R104	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R108	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R109	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R110	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R111	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R112	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R114	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R115	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R116	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R117	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R118	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R119	1-218-665-11	s	METAL, CHIP 75 0.5% 1/16W
R120	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R121	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R122	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R123	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R124	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R125	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R126	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R128	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R129	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R130	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R131	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R132	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R133	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R134	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R135	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R136	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R137	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R138	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R139	1-218-684-11	s	METAL, CHIP 470 0.5% 1/16W
R140	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R141	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R142	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R143	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R144	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R145	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R146	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R147	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R148	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R149	1-218-665-11	s	METAL, CHIP 75 0.5% 1/16W
R150	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R151	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R152	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R154	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R155	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R156	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R157	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R158	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R159	1-218-665-11	s	METAL, CHIP 75 0.5% 1/16W
R162	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R163	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R164	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R170	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R172	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R174	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R175	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R178	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R179	1-218-672-11	s	METAL, CHIP 150 0.5% 1/16W

(DA-130/DA-130P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R180	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R181	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R182	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R183	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R184	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R214	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R216	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R217	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R218	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R219	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R220	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R221	1-218-644-11	s	METAL, CHIP 10 0.5% 1/16W
R222	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R223	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R224	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R225	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R226	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R227	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R228	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R229	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R230	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R231	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R233	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R234	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R235	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R236	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R237	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R238	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R239	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R240	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R250	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R251	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R252	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R253	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R292	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R295	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R296	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R298	1-218-699-11	s	METAL, CHIP 2K 0.5% 1/16W
R299	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R300	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R301	1-218-665-11	s	METAL, CHIP 75 0.5% 1/16W
R302	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R303	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R304	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R306	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R307	1-218-656-11	s	METAL, CHIP 33 0.5% 1/16W
R308	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R310	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R311	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R312	1-218-644-11	s	METAL, CHIP 10 0.5% 1/16W
R313	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R314	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R315	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R316	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R317	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R318	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R319	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R320	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R322	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R324	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R325	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R326	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R327	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R328	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R329	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R330	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R331	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R332	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R334	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R335	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R337	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R338	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R339	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R340	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R341	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R342	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R343	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R344	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R345	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R346	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R400	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R401	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R402	1-218-644-11	s	METAL, CHIP 10 0.5% 1/16W
R403	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R404	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R405	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R406	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R408	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R411	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R412	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R414	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R415	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R416	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R417	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R418	1-218-707-11	s	METAL, CHIP 4.3K 0.50% 1/16W
R419	1-218-707-11	s	METAL, CHIP 4.3K 0.50% 1/16W
R420	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R421	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R430	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R450	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R451	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R452	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R453	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R454	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R456	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R457	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
RB1	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB2	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB3	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB4	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB5	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB6	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB8	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB9	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB10	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB11	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB12	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K

(DA-130/DA-130P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB13	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB14	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB17	1-236-904-11	s	NETWORK RESISTOR, CHIP 1.0K
RB18	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB19	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB21	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB22	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB23	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB24	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB25	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB26	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB27	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB28	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB29	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB30	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB31	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RV1	1-237-035-11	s	RES, ADJ METAL 5K
RV2	1-237-035-11	s	RES, ADJ METAL 5K
RV3	1-237-035-11	s	RES, ADJ METAL 5K
RV4	1-237-033-11	s	RES, ADJ METAL 1K
RV5	1-237-037-11	s	RES, ADJ METAL 20K (for CA-702)
	1-237-036-11	s	RES, ADJ METAL 10K (for CA-702P)
RV6	1-237-035-11	s	RES, ADJ METAL 5K

DC-96 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-668-760-11	o	PRINTED WIRING BOARD, DC-96
C1	1-115-339-11	s	CERAMIC 0.1uF 10% 50V
C2	1-115-339-11	s	CERAMIC 0.1uF 10% 50V
C3	1-115-339-11	s	CERAMIC 0.1uF 10% 50V
C4	1-115-339-11	s	CERAMIC 0.1uF 10% 50V
C5	1-115-339-11	s	CERAMIC 0.1uF 10% 50V
C6	1-115-339-11	s	CERAMIC 0.1uF 10% 50V
C7	1-115-339-11	s	CERAMIC 0.1uF 10% 50V
CN1	1-766-377-12	s	CONNECTOR, BATTERY, MALE
FL1	1-414-581-21	s	FERRITE, CHIP
FL2	1-414-581-21	s	FERRITE, CHIP
FL3	1-239-896-11	s	FILTER, CHIP EMI
FL4	1-239-896-11	s	FILTER, CHIP EMI
FL5	1-239-896-11	s	FILTER, CHIP EMI

DIF-67 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8317-808-A	o	MOUNTED CIRCUIT BOARD, DIF-67
6pcs	3-729-061-01	s	SCREW, M2X4.5, TYPE 1
1pc	3-612-436-01	o	PLATE(DIF),ORNAMENTAL
1pc	3-724-753-01	o	RING
C1	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C2	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C3	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C4	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C5	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C6	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C7	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C8	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C9	1-104-823-11	s	TANTALUM, CHIP 47uF 20% 16V
C10	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C11	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C12	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C13	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C14	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C15	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C16	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C17	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C18	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C19	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C20	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C21	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C22	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C23	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C24	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C25	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C26	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C27	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C28	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C29	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C30	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C31	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C32	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C33	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C34	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C35	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C36	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C37	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C38	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C39	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C40	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C42	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C43	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C50	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C51	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C54	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C55	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C56	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C57	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C58	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C59	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C60	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C61	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C62	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C63	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C64	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C65	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C66	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C67	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C68	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C69	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C70	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C71	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C72	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C73	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C74	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C75	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C76	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C77	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C78	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C80	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C81	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C82	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C83	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C90	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C91	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C92	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C94	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C95	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C96	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C97	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C98	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C99	1-162-923-11	s	CERAMIC, CHIP 47PF 5% 50V
C100	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C101	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C102	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C103	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C104	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C105	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C106	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C107	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C108	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C109	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C110	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C111	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C112	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C113	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C114	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C115	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C116	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C117	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C118	1-107-682-11	s	CERAMIC 1uF 10% 16V
C119	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C120	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C121	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C122	1-162-911-11	s	CERAMIC, CHIP 6PF 50V
C123	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C124	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C125	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C126	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C127	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C128	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C129	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C130	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C131	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C132	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C133	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C134	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C135	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C140	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C141	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C142	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C143	1-115-581-11	s	TANTALUM, CHIP 100uF 20% 16V
C144	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C145	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C146	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C147	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C148	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C149	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C150	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C151	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C153	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C154	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C155	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C156	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C157	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C158	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C159	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C160	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C161	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C162	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C163	1-164-489-11	s	CERAMIC, CHIP 0.22uF 10% 16V
C164	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C165	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C166	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C167	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C168	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C169	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C170	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C171	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C172	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C173	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C174	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C175	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C176	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C177	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C178	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C179	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C180	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C200	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C201	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C202	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C203	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C204	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C205	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C206	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C207	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C208	1-135-091-00	s	TANTALUN, CHIP 1uF 10% 16V
C209	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C210	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C211	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C212	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C300	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C301	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V

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Ref. No. or Q'ty	Part No.	SP	Description
C302	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
C303	1-113-682-11	s	TANTALUM, CHIP 33uF 20% 10V
CN2	1-764-243-11	o	CONNECTOR, COAXIAL
CN3	1-764-243-11	o	CONNECTOR, COAXIAL
CN4	1-764-243-11	o	CONNECTOR, COAXIAL
D2	8-719-054-49	s	DIODE HSMP-3894#L31
D3	8-719-054-49	s	DIODE HSMP-3894#L31
D4	8-719-054-49	s	DIODE HSMP-3894#L31
D5	8-719-054-49	s	DIODE HSMP-3894#L31
D11	8-719-820-41	s	DIODE 1SS302
D12	8-719-820-41	s	DIODE 1SS302
FB1	1-543-309-21	s	BEAD, FERRITE
FB2	1-543-309-21	s	BEAD, FERRITE
FB3	1-543-309-21	s	BEAD, FERRITE
FB4	1-543-309-21	s	BEAD, FERRITE
FB10	1-543-309-21	s	BEAD, FERRITE
FB11	1-543-309-21	s	BEAD, FERRITE
FB12	1-543-309-21	s	BEAD, FERRITE
FB13	1-543-309-21	s	BEAD, FERRITE
FB14	1-543-309-21	s	BEAD, FERRITE
FB15	1-543-309-21	s	BEAD, FERRITE
FB16	1-543-309-21	s	BEAD, FERRITE
IC1	8-759-399-51	s	IC 74LVX4245QSCX
IC2	8-759-399-51	s	IC 74LVX4245QSCX
IC3	8-759-399-51	s	IC 74LVX4245QSCX
IC5	8-759-172-73	s	IC CXD8385Q
IC6	8-759-080-08	s	IC TC74VHC595FS(EL)
IC7	8-759-080-08	s	IC TC74VHC595FS(EL)
IC8	8-759-080-08	s	IC TC74VHC595FS(EL)
IC9	8-759-080-08	s	IC TC74VHC595FS(EL)
IC10	8-759-080-08	s	IC TC74VHC595FS(EL)
IC11	8-759-196-96	s	IC TC7SH08FU-TE85R
IC12	8-759-485-79	s	IC TC7SET08FU(TE85L)
IC13	8-759-257-96	s	IC TC7S14FU(TE85R)
IC14	8-759-079-61	s	IC TC74VHC74FS(EL)
IC15	8-759-180-08	s	IC TC74HC4538AFS
IC16	8-759-196-97	s	IC TC7SH32FU-TE85R
IC17	8-759-186-53	s	IC TC74VHC163F
IC18	8-759-080-02	s	IC TC74VHC541FS(EL)
IC19	8-759-080-02	s	IC TC74VHC541FS(EL)
IC21	8-752-078-32	s	IC CXB1341R
IC22	8-759-471-69	s	IC AD8001AR-REEL
IC23	8-759-082-61	s	IC TC4W53FU
IC24	8-759-471-69	s	IC AD8001AR-REEL
IC25	8-759-066-59	s	IC TC74HC4053AFS
IC27	8-759-519-12	s	IC CXD8281Q
IC28	8-759-054-61	s	IC CLC505AJE
IC29	0-275-408-01	s	IC CXB1342R
IC30	8-759-080-02	s	IC TC74VHC541FS(EL)
IC31	8-759-080-02	s	IC TC74VHC541FS(EL)
IC33	8-759-196-96	s	IC TC7SH08FU-TE85R
IC34	8-759-485-79	s	IC TC7SET08FU(TE85L)
IC35	8-759-079-60	s	IC TC74VHC32FS(EL)
IC36	8-759-079-49	s	IC TC74VHC04FS(EL)
IC37	8-759-079-52	s	IC TC74VHC08FS(EL)
IC38	8-759-172-72	s	IC CXD8386AQ
IC39	8-759-080-06	s	IC TC74VHC574FS(EL)

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Ref. No. or Q'ty	Part No.	SP	Description
IC40	8-759-080-06	s	IC TC74VHC574FS(EL)
IC41	8-759-392-01	s	IC TC7SH86FU-TE85R
IC42	8-759-392-01	s	IC TC7SH86FU-TE85R
IC43	8-759-080-08	s	IC TC74VHC595FS(EL)
IC44	8-752-391-94	s	IC CXD3122R-T4
IC45	8-759-257-96	s	IC TC7S14FU(TE85R)
IC46	8-759-079-61	s	IC TC74VHC74FS(EL)
IC48	8-759-186-53	s	IC TC74VHC163F
IC49	8-759-079-60	s	IC TC74VHC32FS(EL)
IC50	8-759-079-74	s	IC TC74VHC157FS(EL)
IC52	8-759-186-53	s	IC TC74VHC163F
IC53	8-759-289-69	s	IC CXD8280AQ
IC54	8-759-079-78	s	IC TC74VHC165FS(EL)
IC55	8-759-196-96	s	IC TC7SH08FU-TE85R
IC56	8-759-196-96	s	IC TC7SH08FU-TE85R
IC57	8-759-079-78	s	IC TC74VHC165FS(EL)
IC58	8-759-079-78	s	IC TC74VHC165FS(EL)
IC59	8-759-079-78	s	IC TC74VHC165FS(EL)
IC60	8-759-196-93	s	IC TC7SH00FU-TE85R
IC61	8-759-079-49	s	IC TC74VHC04FS(EL)
IC62	8-759-196-96	s	IC TC7SH08FU-TE85R
IC63	8-759-196-96	s	IC TC7SH08FU-TE85R
IC64	8-759-066-68	s	IC REF-03GS
IC65	8-759-082-61	s	IC TC4W53FU
IC66	8-759-082-61	s	IC TC4W53FU
IC67	8-759-463-81	s	IC TLC2272CPW-E05
IC68	8-759-196-96	s	IC TC7SH08FU-TE85R
IC69	8-759-196-96	s	IC TC7SH08FU-TE85R
IC70	8-759-196-93	s	IC TC7SH00FU-TE85R
IC71	8-759-082-61	s	IC TC4W53FU
IC72	8-759-196-96	s	IC TC7SH08FU-TE85R
IC77	8-759-488-34	s	IC TLV2221CDBV2
IC78	8-759-082-61	s	IC TC4W53FU
IC80	8-759-196-97	s	IC TC7SH32FU-TE85R
IC99	8-759-082-61	s	IC TC4W53FU
L1	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L2	1-424-643-11	s	COIL, CHOKE 10uH
L3	1-424-643-11	s	COIL, CHOKE 10uH
L4	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L5	1-410-797-11	s	INDUCTOR 15uH
L10	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L11	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
Q1	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q2	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q3	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q4	8-729-117-32	s	TRANSISTOR 2SC4177
Q5	8-729-105-68	s	TRANSISTOR 2SC3356-K
Q6	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q7	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q8	8-729-112-65	s	TRANSISTOR 2SA1462-Y33
Q9	8-729-041-23	s	TRANSISTOR NDS356AP
Q10	8-729-041-24	s	TRANSISTOR NDS355AN
Q11	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q12	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q13	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q14	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q15	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q16	8-729-105-68	s	TRANSISTOR 2SC3356-K

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Ref. No. or Q'ty	Part No.	SP	Description
Q17	8-729-105-68	s	TRANSISTOR 2SC3356-K
Q18	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q19	8-729-105-68	s	TRANSISTOR 2SC3356-K
Q20	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q21	8-729-041-23	s	TRANSISTOR NDS356AP
Q22	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q23	8-729-041-24	s	TRANSISTOR NDS355AN
Q24	8-729-204-07	s	TRANSISTOR 3SK151
Q27	8-729-014-93	s	TRANSISTOR 2SB1440S-TX
Q28	8-729-014-93	s	TRANSISTOR 2SB1440S-TX
Q29	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q30	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q31	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q32	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q34	8-729-041-24	s	TRANSISTOR NDS355AN
Q35	8-729-041-23	s	TRANSISTOR NDS356AP
Q36	8-729-041-24	s	TRANSISTOR NDS355AN
Q57	8-729-142-90	s	TRANSISTOR 2SK853-K5
Q58	8-729-142-90	s	TRANSISTOR 2SK853-K5
Q66	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q88	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
R1	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R2	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R3	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R4	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R5	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R6	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R8	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R9	1-218-734-11	s	METAL, CHIP 56K 0.5% 1/16W
R10	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R11	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R12	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R13	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R14	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R15	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R18	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R19	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R20	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R21	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R22	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R28	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R29	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R37	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R39	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R41	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R42	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R43	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R50	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R51	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R53	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R54	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R55	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R56	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R57	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R58	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R60	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R61	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R62	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R63	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R64	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R65	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R66	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R67	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R68	1-218-718-11	s	METAL, CHIP 12K 0.5% 1/16W
R69	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R70	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R71	1-218-699-11	s	METAL, CHIP 2K 0.5% 1/16W
R72	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R73	1-218-678-11	s	METAL, CHIP 270 0.5% 1/16W
R74	1-218-678-11	s	METAL, CHIP 270 0.5% 1/16W
R75	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R76	1-218-710-11	s	METAL, CHIP 5.6K 0.5% 1/16W
R77	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R78	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R79	1-218-694-11	s	METAL, CHIP 1.2K 0.5% 1/16W
R80	1-218-718-11	s	METAL, CHIP 12K 0.5% 1/16W
R81	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R82	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R83	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R84	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W
R85	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W
R86	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R87	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R90	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R91	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R92	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R93	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R94	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R96	1-218-718-11	s	METAL, CHIP 12K 0.5% 1/16W
R98	1-218-674-11	s	METAL, CHIP 180 0.5% 1/16W
R100	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R101	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R102	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R104	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R105	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R106	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R107	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R108	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R109	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R110	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R111	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R112	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R113	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W
R114	1-218-652-11	s	METAL, CHIP 22 0.5% 1/16W
R115	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R118	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R119	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R120	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R121	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R122	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R123	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R124	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R125	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R126	1-218-702-11	s	METAL, CHIP 2.7K 0.5% 1/16W
R127	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R128	1-218-678-11	s	METAL, CHIP 270 0.5% 1/16W
R129	1-218-678-11	s	METAL, CHIP 270 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R130	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W
R131	1-218-656-11	s	METAL, CHIP 33 0.5% 1/16W
R132	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R133	1-218-646-11	s	METAL, CHIP 12 0.5% 1/16W
R134	1-218-656-11	s	METAL, CHIP 33 0.5% 1/16W
R135	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W
R136	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R137	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R138	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R139	1-218-664-11	s	METAL, CHIP 68 0.5% 1/16W
R140	1-218-752-11	s	METAL, CHIP 330K 0.5% 1/16W
R141	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R142	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R143	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R144	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R145	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R146	1-218-690-11	s	METAL, CHIP 820 0.5% 1/16W
R147	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R148	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R149	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R150	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R151	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R158	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R159	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R160	1-218-676-11	s	METAL, CHIP 220 0.5% 1/16W
R161	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R162	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R163	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R170	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R171	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R172	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R173	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R174	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R175	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R176	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R177	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R178	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R179	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R180	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R181	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R182	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R183	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R184	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R185	1-218-688-11	s	METAL, CHIP 680 0.50% 1/16W
R193	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R194	1-218-727-11	s	METAL, CHIP 30K 0.50% 1/16W
R195	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R196	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R200	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R201	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R202	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R204	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R206	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R207	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R208	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R209	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R210	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R211	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R214	1-216-864-11	s	METAL, CHIP 0 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R215	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R216	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R220	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R221	1-218-718-11	s	METAL, CHIP 12K 0.5% 1/16W
R222	1-218-770-11	s	METAL, CHIP 560K 0.50% 1/10W
R223	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R224	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R225	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R226	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R233	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R234	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R238	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R239	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R240	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R241	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R242	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R243	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R250	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R300	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
RB1	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB2	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB3	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB4	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB5	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB6	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB7	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB8	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB9	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB10	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB11	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB12	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB13	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB14	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB15	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB16	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB17	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB18	1-239-409-11	s	NETWORK RESISTOR, CHIP 47
RB19	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB20	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB21	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB22	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB23	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB24	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB25	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB26	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB27	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB28	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB29	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB30	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB31	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB32	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB33	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB34	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB35	1-239-412-11	s	NETWORK RESISTOR, CHIP 100
RB36	1-236-907-11	s	NETWORK RESISTOR, CHIP 100K
RB37	1-239-416-11	s	NETWORK RESISTOR, CHIP 220
RB38	1-239-416-11	s	NETWORK RESISTOR, CHIP 220
RB39	1-239-416-11	s	NETWORK RESISTOR, CHIP 220
RB40	1-239-416-11	s	NETWORK RESISTOR, CHIP 220

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Ref. No. or Q'ty	Part No.	SP	Description
RV1	1-237-032-11	s	RES, ADJ METAL 500
RV2	1-237-033-11	s	RES, ADJ METAL 1K
RV3	1-237-031-11	s	RES, ADJ METAL 200
S1	1-692-270-41	s	SWITCH, SLIDE

DU-31 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-668-761-11	o	PRINTED WIRING BOARD, DU-31
CN20	1-764-243-11	o	CONNECTOR, COAXIAL
CN21	1-764-243-11	o	CONNECTOR, COAXIAL

HN-252 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8317-758-A	o	MOUNTED CIRCUIT BOARD, HN-252
CN27	1-573-360-21	s	CONNECTOR, FFC/FPC 20P
CN28	1-573-360-21	s	CONNECTOR, FFC/FPC 20P
CN29	1-569-531-11	s	HOUSING, 20P
CN30	1-569-531-11	s	HOUSING, 20P
FB1	1-543-622-11	s	BEAD, FERRITE, CHIP
FB2	1-543-622-11	s	BEAD, FERRITE, CHIP
FB3	1-543-622-11	s	BEAD, FERRITE, CHIP
FB4	1-543-622-11	s	BEAD, FERRITE, CHIP
FB5	1-543-622-11	s	BEAD, FERRITE, CHIP
FB6	1-543-622-11	s	BEAD, FERRITE, CHIP
FB7	1-543-622-11	s	BEAD, FERRITE, CHIP
FB8	1-543-622-11	s	BEAD, FERRITE, CHIP
FB9	1-543-622-11	s	BEAD, FERRITE, CHIP
FB10	1-543-622-11	s	BEAD, FERRITE, CHIP
FB11	1-543-622-11	s	BEAD, FERRITE, CHIP
FB12	1-543-622-11	s	BEAD, FERRITE, CHIP
FB13	1-543-622-11	s	BEAD, FERRITE, CHIP
FB14	1-543-622-11	s	BEAD, FERRITE, CHIP
FB15	1-543-622-11	s	BEAD, FERRITE, CHIP
FB16	1-543-622-11	s	BEAD, FERRITE, CHIP
FB17	1-543-622-11	s	BEAD, FERRITE, CHIP
FB18	1-543-622-11	s	BEAD, FERRITE, CHIP
FB19	1-543-622-11	s	BEAD, FERRITE, CHIP
FB20	1-543-622-11	s	BEAD, FERRITE, CHIP
FB21	1-543-622-11	s	BEAD, FERRITE, CHIP
FB22	1-543-622-11	s	BEAD, FERRITE, CHIP
FB23	1-543-622-11	s	BEAD, FERRITE, CHIP
FB24	1-543-622-11	s	BEAD, FERRITE, CHIP
FB25	1-543-622-11	s	BEAD, FERRITE, CHIP
FB26	1-543-622-11	s	BEAD, FERRITE, CHIP
FB27	1-543-622-11	s	BEAD, FERRITE, CHIP
FB28	1-543-622-11	s	BEAD, FERRITE, CHIP
FB29	1-543-622-11	s	BEAD, FERRITE, CHIP
FB30	1-543-622-11	s	BEAD, FERRITE, CHIP
FB31	1-543-622-11	s	BEAD, FERRITE, CHIP
FB32	1-543-622-11	s	BEAD, FERRITE, CHIP
FB33	1-543-622-11	s	BEAD, FERRITE, CHIP
FB34	1-543-622-11	s	BEAD, FERRITE, CHIP
FB35	1-543-622-11	s	BEAD, FERRITE, CHIP
FB36	1-543-622-11	s	BEAD, FERRITE, CHIP

MB-766 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8317-751-A	o	MOUNTED CIRCUIT BOARD, MB-766
12pcs	3-729-061-01	s	SCREW, M2X4.5, TYPE 1
C10	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C11	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C12	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C13	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C14	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C15	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C16	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C17	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C18	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C19	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C20	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C21	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C22	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C23	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C24	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
C25	1-107-823-11	s	CERAMIC, CHIP 0.47uF 10% 16V
CN5	1-569-531-11	s	HOUSING, 20P
CN6	1-569-531-11	s	HOUSING, 20P
CN7	1-770-678-11	o	CONNECTOR, BOARD TO BOARD 50P
CN8	1-580-756-21	o	CONNECTOR, 7P, MALE
R1	1-216-073-00	s	METAL, CHIP 10K 5% 1/10W

PS-501 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8317-760-A	o	MOUNTED CIRCUIT BOARD, PS-501
C1	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C2	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C3	1-128-528-11	s	ELECT 470uF 20% 25V
C4	1-128-528-11	s	ELECT 470uF 20% 25V
C5	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C6	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C7	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C8	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C10	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
C11	1-164-232-11	s	CERAMIC, CHIP 0.01uF 10% 100V
CB1	⚠ 1-533-956-11	s	BREAKER, CIRCUIT 2A 250V
CN22	1-750-933-21	o	CONNECTOR, 12P, MALE
CN23	1-750-933-21	o	CONNECTOR, 12P, MALE
CN24	1-750-933-21	o	CONNECTOR, 12P, MALE
CN25	1-573-290-21	s	CONNECTOR, 4P, MALE
CN26	1-580-756-21	o	CONNECTOR, 7P, MALE
D1	8-719-067-86	s	DIODE ECL06B03-TE16F
FL1	1-117-193-11	s	CERAMIC, CHIP 1.5uF 50V 6A
FL2	1-117-193-11	s	CERAMIC, CHIP 1.5uF 50V 6A
FL3	1-117-193-11	s	CERAMIC, CHIP 1.5uF 50V 6A
FL4	1-117-193-11	s	CERAMIC, CHIP 1.5uF 50V 6A
FL5	1-117-193-11	s	CERAMIC, CHIP 1.5uF 50V 6A
FL6	1-117-193-11	s	CERAMIC, CHIP 1.5uF 50V 6A
FL7	1-117-193-11	s	CERAMIC, CHIP 1.5uF 50V 6A
FL8	1-117-193-11	s	CERAMIC, CHIP 1.5uF 50V 6A
FL9	1-239-895-11	s	FILTER, CHIP EMI
FL10	1-239-895-11	s	FILTER, CHIP EMI
FL11	1-239-895-11	s	FILTER, CHIP EMI
FL12	1-239-895-11	s	FILTER, CHIP EMI
FL13	1-239-895-11	s	FILTER, CHIP EMI
Q1	8-729-043-17	s	TRANSISTOR MTD20P03HDLT4
R1	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R2	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R3	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R4	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
S4	1-771-318-11	s	SWITCH, TOGGLE

RE-153 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8317-807-A	o	MOUNTED CIRCUIT BOARD, RE-153
1pc	3-612-871-01	o	SHILD(RE)
6pcs	3-729-061-01	s	SCREW, M2X4.5, TYPE 1
1pc	3-612-448-01	o	PLATE(RE),ORNAMENTAL
1pc	3-724-753-01	o	RING
C1	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C10	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C11	1-127-512-00	s	ELECT 10uF 20% 25V
C12	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C13	1-104-478-11	s	TANTALUM, CHIP 10uF 20% 35V
C14	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C15	1-113-992-11	s	TANTALUM, CHIP 3.3uF 20% 35V
C16	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C17	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C18	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C19	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C20	1-107-687-11	s	TANTALUM, CHIP 3.3uF 20% 20V
C21	1-107-687-11	s	TANTALUM, CHIP 3.3uF 20% 20V
C22	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C23	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C24	1-164-315-11	s	CERAMIC, CHIP 470PF 5% 50V
C25	1-165-176-11	s	CERAMIC, CHIP 0.047uF 10% 16V
C26	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C28	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C29	1-107-689-21	s	TANTALUM, CHIP 1uF 10% 35V
C42	1-107-687-11	s	TANTALUM, CHIP 3.3uF 20% 20V
C43	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C44	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C45	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C47	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C48	1-107-689-21	s	TANTALUM, CHIP 1uF 10% 35V
C49	1-107-687-11	s	TANTALUM, CHIP 3.3uF 20% 20V
C50	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C51	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C52	1-107-686-11	s	TANTALUM, CHIP 4.7uF 20% 16V
C60	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C61	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C62	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C63	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C64	1-127-512-00	s	ELECT 10uF 20% 25V
C65	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C66	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C67	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C68	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C70	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C71	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C73	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C74	1-127-512-00	s	ELECT 10uF 20% 25V
C75	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C76	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C77	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C78	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C80	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C81	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C82	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C83	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C84	1-127-512-00	s	ELECT 10uF 20% 25V
C85	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C86	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V

(RE-153 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C87	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C88	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C90	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C91	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C92	1-164-227-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C93	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C94	1-127-512-00	s	ELECT 10uF 20% 25V
C95	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C96	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C97	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C98	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C99	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C101	1-162-927-11	s	CERAMIC, CHIP 100PF 5% 50V
C102	1-135-073-00	s	TANTALUM, CHIP 0.33uF 10% 35V
C103	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C104	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C106	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C107	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C108	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C109	1-117-372-11	s	TANTALUM, CHIP 100uF 20% 10V
C111	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C112	1-162-915-11	s	CERAMIC, CHIP 10PF 50V
C113	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C114	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C115	1-104-913-11	s	TANTALUM, CHIP 10uF 20% 16V
C116	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C117	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C118	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C119	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C120	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C121	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C122	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C123	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C124	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C125	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C126	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C127	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C128	1-162-957-11	s	CERAMIC, CHIP 220PF 5% 50V
C129	1-104-851-11	s	TANTALUM, CHIP 10uF 20% 10V
C130	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C131	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C132	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C133	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C134	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C202	1-107-826-11	s	CERAMIC, CHIP 0.1uF 10% 16V
C203	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C204	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C205	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
C206	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
D1	8-719-404-35	s	DIODE MA141WK
D2	8-719-404-35	s	DIODE MA141WK
D3	8-719-404-35	s	DIODE MA141WK
D4	8-719-404-35	s	DIODE MA141WK
D5	8-719-938-75	s	DIODE SB05-05CP
D6	8-719-938-75	s	DIODE SB05-05CP
D7	8-719-938-75	s	DIODE SB05-05CP
D8	8-719-067-86	s	DIODE ECL06B03-TE16F
D9	8-719-938-75	s	DIODE SB05-05CP
D10	8-719-938-75	s	DIODE SB05-05CP

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Ref. No. or Q'ty	Part No.	SP	Description
D11	8-719-948-47	s	DIODE HSM88AS
D12	8-719-948-47	s	DIODE HSM88AS
D13	8-719-404-35	s	DIODE MA141WK
D14	8-719-404-35	s	DIODE MA141WK
D15	8-719-404-35	s	DIODE MA141WK
D16	8-719-404-35	s	DIODE MA141WK
D17	8-719-404-35	s	DIODE MA141WK
D18	8-719-029-68	s	DIODE RD6.2UJN-T1
D19	8-719-105-91	s	DIODE RD5.6M-B2
D20	8-719-105-91	s	DIODE RD5.6M-B2
D21	8-719-105-51	s	DIODE RD3.6M-B1
D22	8-719-948-47	s	DIODE HSM88AS
D23	8-719-938-75	s	DIODE SB05-05CP
D24	8-719-938-75	s	DIODE SB05-05CP
D25	8-719-105-91	s	DIODE RD5.6M-B2
D26	8-719-024-81	s	DIODE 1SS300-TE85L
D27	8-719-948-47	s	DIODE HSM88AS
D101	8-719-820-41	s	DIODE 1SS302
D102	8-719-820-41	s	DIODE 1SS302
D104	8-719-948-47	s	DIODE HSM88AS
IC1	8-759-927-99	s	IC MB3761PF
IC2	8-759-927-99	s	IC MB3761PF
IC3	8-759-260-57	s	IC TL1451ACPW-E05
IC4	8-759-260-57	s	IC TL1451ACPW-E05
IC5	8-759-337-40	s	IC NJM2904V(TE2)
IC7	8-729-039-35	s	TRANSISTOR SI9435DY-T1
IC8	8-729-039-35	s	TRANSISTOR SI9435DY-T1
IC9	8-729-039-35	s	TRANSISTOR SI9435DY-T1
IC10	8-729-039-35	s	TRANSISTOR SI9435DY-T1
IC101	8-759-080-08	s	IC TC74VHC595FS(EL)
IC103	8-759-371-00	s	IC HD6437021C02X
IC104	8-759-497-93	o	IC AT29LV512-RE153V1.00
IC105	8-759-918-65	s	IC TL7700CPS
IC106	8-759-051-48	s	IC SN74HCT541APW-E05
IC107	8-759-051-48	s	IC SN74HCT541APW-E05
IC108	8-759-080-02	s	IC TC74VHC541FS(EL)
IC109	8-759-051-48	s	IC SN74HCT541APW-E05
IC110	8-759-079-51	s	IC TC74VHCU04FS(EL)
IC111	8-759-079-73	s	IC TC74VHC153FS(EL)
IC112	8-759-079-78	s	IC TC74VHC165FS(EL)
IC113	8-759-079-78	s	IC TC74VHC165FS(EL)
IC114	8-759-079-78	s	IC TC74VHC165FS(EL)
IS104	1-251-350-11	o	SOCKET, IC (PLCC) 32P
L1	1-424-653-11	s	COIL, CHOKE 10uH
L3	1-416-606-11	s	COIL, CHOKE
L4	1-424-653-11	s	COIL, CHOKE 10uH
L6	1-416-606-11	s	COIL, CHOKE
L7	1-424-653-11	s	COIL, CHOKE 10uH
L9	1-416-606-11	s	COIL, CHOKE
L10	1-424-653-11	s	COIL, CHOKE 10uH
L11	1-416-606-11	s	COIL, CHOKE
L12	1-424-653-11	s	COIL, CHOKE 10uH
L101	1-424-653-11	s	COIL, CHOKE 10uH
L102	1-424-653-11	s	COIL, CHOKE 10uH
Q1	8-729-043-17	s	TRANSISTOR MTD20P03HDLT4
Q2	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q3	8-729-028-91	s	TRANSISTOR DTA144EUA-T106

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Ref. No. or Q'ty	Part No.	SP	Description
Q4	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q5	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q6	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q7	8-729-014-93	s	TRANSISTOR 2SB1440S-TX
Q8	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q9	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q10	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q11	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q12	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q13	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q14	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q15	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q16	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q17	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q20	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q21	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q22	8-729-112-65	s	TRANSISTOR 2SA1462-Y33
Q23	8-729-031-39	s	TRANSISTOR MTD20N03HDL
Q30	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q31	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q32	8-729-112-65	s	TRANSISTOR 2SA1462-Y33
Q40	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q41	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q42	8-729-112-65	s	TRANSISTOR 2SA1462-Y33
Q43	8-729-031-39	s	TRANSISTOR MTD20N03HDL
Q50	8-729-012-35	s	TRANSISTOR 2SK711-BL
Q51	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q52	8-729-112-65	s	TRANSISTOR 2SA1462-Y33
Q53	8-729-031-39	s	TRANSISTOR MTD20N03HDL
Q62	8-729-140-66	s	TRANSISTOR 2SC4177-L5L6
Q101	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q104	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q105	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q106	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q107	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q108	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q111	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q112	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
R1	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R2	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R3	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R4	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R5	1-218-726-11	s	METAL, CHIP 27K 0.5% 1/16W
R6	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R7	1-218-768-11	s	METAL 470K 0.5% 1/10W
R8	1-216-863-11	s	METAL, CHIP 3.3M 5% 1/16W
R9	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R10	1-218-768-11	s	METAL 470K 0.5% 1/10W
R11	1-218-726-11	s	METAL, CHIP 27K 0.5% 1/16W
R12	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R13	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R14	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R15	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R19	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R20	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R21	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R22	1-218-726-11	s	METAL, CHIP 27K 0.5% 1/16W
R23	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R24	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R25	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R26	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R27	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R28	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R29	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R30	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R31	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R32	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R33	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R34	1-218-696-11	s	METAL, CHIP 1.5K 0.5% 1/16W
R35	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R36	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R38	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R39	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R40	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R41	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R42	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R43	1-218-712-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R50	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R51	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R52	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R53	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R54	1-218-726-11	s	METAL, CHIP 27K 0.5% 1/16W
R55	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R56	1-218-726-11	s	METAL, CHIP 27K 0.5% 1/16W
R57	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R58	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R59	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R60	1-218-686-11	s	METAL, CHIP 560 0.5% 1/16W
R61	1-218-712-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R65	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R66	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R67	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R69	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R70	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R71	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R72	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R73	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R74	1-218-686-11	s	METAL, CHIP 560 0.5% 1/16W
R75	1-218-712-11	s	METAL, CHIP 6.8K 0.5% 1/16W
R76	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R77	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R80	1-218-664-11	s	METAL, CHIP 68 0.5% 1/16W
R81	1-218-720-11	s	METAL, CHIP 15K 0.5% 1/16W
R82	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R83	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R84	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R85	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R86	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R87	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R88	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R89	1-218-722-11	s	METAL, CHIP 18K 0.5% 1/16W
R90	1-218-664-11	s	METAL, CHIP 68 0.5% 1/16W
R91	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R92	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R95	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R97	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R98	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W

(RE-153 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R99	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R100	1-218-664-11	s	METAL, CHIP 68 0.5% 1/16W
R101	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R102	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R103	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R104	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R105	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R106	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R107	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R108	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R110	1-218-664-11	s	METAL, CHIP 68 0.5% 1/16W
R111	1-218-730-11	s	METAL, CHIP 39K 0.5% 1/16W
R112	1-218-660-91	s	METAL, CHIP 47 0.5% 1/16W
R113	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R114	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R115	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R116	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R117	1-218-719-11	s	METAL, CHIP 13K 0.5% 1/16W
R118	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R121	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R122	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R123	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R124	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R125	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R126	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R127	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R130	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R131	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R132	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R133	1-218-718-11	s	METAL, CHIP 12K 0.5% 1/16W
R134	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R135	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R136	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R137	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R138	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R201	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R202	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R203	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R204	1-218-724-11	s	METAL, CHIP 22K 0.5% 1/16W
R206	1-218-728-11	s	METAL, CHIP 33K 0.5% 1/16W
R207	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R208	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R209	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R210	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R212	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R215	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R216	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R218	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R219	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R221	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R222	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R223	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R224	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W
R225	1-218-723-11	s	METAL, CHIP 20K 0.50% 1/16W
R226	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R227	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R228	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R229	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R230	1-218-700-11	s	METAL, CHIP 2.2K 0.5% 1/16W

(RE-153 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R231	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R232	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R233	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R234	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R235	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R236	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R238	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R239	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R240	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R243	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R244	1-218-704-11	s	METAL, CHIP 3.3K 0.50% 1/16W
R245	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R246	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R247	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R252	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R253	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R254	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R255	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R256	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R257	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R258	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R259	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R260	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R261	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R262	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R263	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R264	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R265	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R266	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R267	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R268	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R269	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R270	1-218-740-11	s	METAL, CHIP 100K 0.5% 1/16W
R271	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R272	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R273	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R274	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R275	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R276	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R277	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R278	1-218-716-11	s	METAL, CHIP 10K 0.5% 1/16W
R279	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R280	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R281	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R282	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R283	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R284	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R285	1-218-732-11	s	METAL, CHIP 47K 0.5% 1/16W
R286	1-218-668-11	s	METAL, CHIP 100 0.5% 1/16W
R287	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R288	1-216-864-11	s	METAL, CHIP 0 5% 1/16W
R289	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R290	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R291	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R293	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R294	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R295	1-218-748-11	s	METAL, CHIP 220K 0.50% 1/16W
R296	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W

(RE-153 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB101	1-236-904-11	s	NETWORK RESISTOR, CHIP 1.0K
RB102	1-236-904-11	s	NETWORK RESISTOR, CHIP 1.0K
RB103	1-236-904-11	s	NETWORK RESISTOR, CHIP 1.0K
RB104	1-236-904-11	s	NETWORK RESISTOR, CHIP 1.0K
RB105	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB106	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB107	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB108	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB109	1-236-904-11	s	NETWORK RESISTOR, CHIP 1.0K
RB110	1-236-904-11	s	NETWORK RESISTOR, CHIP 1.0K
RB111	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB112	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RB113	1-239-310-11	s	RESISTOR ARRAY, CHIP 220K
RV1	1-237-033-11	s	RES, ADJ METAL 1K
S101	1-692-271-31	s	SWITCH, SLIDE
S102	1-692-271-31	s	SWITCH, SLIDE
X101	1-760-139-11	s	CRYSTAL 12.288MHz

SW-924 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-668-759-11	o	PRINTED WIRING BOARD, SW-924
C1	1-164-156-11	s	CERAMIC, CHIP 0.1uF 25V
CN15	1-695-320-21	o	CONNECTOR, 2P, MALE
FL1	1-239-895-11	s	FILTER, CHIP EMI
R1	1-218-692-11	s	METAL, CHIP 1K 0.5% 1/16W
R2	1-216-295-91	s	RES, CHIP 0
S3	1-570-860-11	s	SWITCH, SLIDE

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FRAME

Ref. No. or Q'ty	Part No.	SP	Description
CN27/HN -- CN5/MB			
1pc	1-776-445-11	s	CABLE, FLEXIBLE FLAT, 20P
CN28/HN -- CN6/MB			
1pc	1-776-445-11	s	CABLE, FLEXIBLE FLAT, 20P
CCZ (CN2) -- DU, CN-1528			
1pc	1-958-334-11	o	HARNESS (CCZ)
[CCZ]			
1pc	1-562-244-00	o	RECEPTACLE, CONNECTOR 26P
[CN10/CN-1528]			
1pc	1-568-819-11	o	HOUSING, CONNECTOR 9P
2pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
7pcs	1-766-387-11	o	CONTACT, FEMALE AWG28-26
[CN11/CN-1528]			
1pc	1-569-520-11	o	HOUSING, CONNECTOR 10P
8pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
2pcs	1-766-387-11	o	CONTACT, FEMALE, AWG28-26
[CN31/DU]			
1pc	1-783-253-11	s	CABLE ASSEMBLY, COAXIAL, BLUE
[EARTH]			
1pc	7-623-505-01	s	EARTH LUG 2
DC IN (CN3) -- CN23/PS			
[DC IN]			
1pc	1-565-908-11	s	CONNECTOR XLR4P, MALE
[CN23/PS]			
1pc	1-580-582-11	o	HOUSING,CONNECTOR 12P
7pcs	1-573-176-11	o	CONTACT, FEMALE AWG22-26
BATT OUT (CN5) -- CN24/PS			
[BATT OUT]			
1pc	1-774-841-11	s	CONNECTOR, BATTERY
[CN24/PS]			
1pc	1-580-582-11	o	HOUSING,CONNECTOR 12P
9pcs	1-573-176-11	o	CONTACT, FEMALE AWG22-26
DC OUT (CN6) -- CN23/PS			
1pc	1-543-157-11	s	BEAD, FERRITE
[DC OUT]			
1pc	1-565-072-11	s	CONNECTOR (RF),ROUND 4P, FEMALE
1pc	3-695-267-01	o	BRACKET,DC-OUT
[CN23/PS]			
4pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pc	1-569-619-11	o	HOUSING, CONNECTOR 4P
BNC OUT (CN7)			
1pc	1-784-240-11	s	CONVERTER, COAXIAL CONNECTOR
BNC IN (CN8)			
1pc	1-784-240-11	s	CONVERTER, COAXIAL CONNECTOR
BNC OUT -- CN3/DIF			
1pc	1-783-251-11	s	CABLE ASSEMBLY, COAXIAL, RED
BNC IN -- CN4/DIF			
1pc	1-783-252-11	s	CABLE ASSEMBLY, COAXIAL, GREEN
CN30/DU -- CN2/DIF			
1pc	1-783-253-11	s	CABLE ASSEMBLY, COAXIAL, BLUE

(FRAME)

Ref. No. or Q'ty	Part No.	SP	Description
CN22/PS -- DC			
[CN22/PS]			
1pc	1-580-582-11	o	HOUSING,CONNECTOR 12P
9pcs	1-573-176-11	o	CONTACT, FEMALE AWG22-26
CN26/PS -- CN8/MB			
[CN26/PS]			
7pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pcs	1-569-519-11	o	HOUSING, CONNECTOR 7P
[CN8/MB]			
7pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pcs	1-569-519-11	o	HOUSING, CONNECTOR 7P
CN12/CN-1528 -- CN14/CN-1529			
[CN12/CN-1528]			
5pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pc	1-569-620-11	o	HOUSING, CONNECTOR 5P
[CN14/CN-1529]			
5pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pc	1-569-620-11	o	HOUSING, CONNECTOR 5P
CN13/CN-1528 -- CN15/SW			
[CN13/CN-1528]			
2pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pc	1-569-617-11	o	HOUSING, 2P
[CN15/SW]			
2pcs	1-565-977-11	s	CONTACT, FEMALE AWG28-32
1pc	1-569-617-11	o	HOUSING, 2P

3-3. Changed Parts

NOTE: The numbers identified by marking with) are matching with each serial numbers.
See the table matched with each serial numbers.

711) Serial No. 10016-(CA-702), 40011-(CA-702P)
712) Serial No. 10016-10170(CA-702), 40011-40045(CA-702P)
801) Serial No. 10046-(CA-702), 40011-(CA-702P)
805) Serial No. 10046-(CA-702), 40021-(CA-702P)
811) Serial No. 10171-(CA-702), 40026-(CA-702P)

AD-150/AD-150P BOARD

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711) C270	1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V	--->	1-162-915-11 s CERAMIC, CHIP 10PF 50V
711) C273	1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V	--->	1-162-918-11 s CERAMIC, CHIP 18PF 5% 50V
711) R183	1-218-722-11 s METAL, CHIP 18K 0.5% 1/16W (for CA-702)	--->	1-218-724-11 s METAL, CHIP 22K 0.5% 1/16W (for CA-702)
	1-218-724-11 s METAL, CHIP 22K 0.5% 1/16W (for CA-702P)	--->	1-218-722-11 s METAL, CHIP 18K 0.5% 1/16W (for CA-702P)
711) R184	1-218-702-11 s METAL, CHIP 2.7K 0.5% 1/16W (for CA-702P)	--->	1-218-700-11 s METAL, CHIP 2.2K 0.5% 1/16W (for CA-702P)
712) R175	1-218-690-11 s METAL, CHIP 820 0.5% 1/16W (for CA-702)	--->	1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W (for CA-702)
	1-218-686-11 s METAL, CHIP 560 0.5% 1/16W (for CA-702P)	--->	1-218-688-11 s METAL, CHIP 680 0.5% 1/16W (for CA-702P)
712) R176	1-218-682-11 s METAL, CHIP 390 0.5% 1/16W (for CA-702)	--->	1-218-676-11 s METAL, CHIP 220 0.5% 1/16W (for CA-702)
	1-218-686-11 s METAL, CHIP 560 0.5% 1/16W (for CA-702P)	--->	1-218-682-11 s METAL, CHIP 390 0.5% 1/16W (for CA-702P)
801) D4	NOT IN USE.	--->	8-719-948-48 s DIODE HSM88AS-TL
801) R55	NOT IN USE.	--->	1-218-676-11 s METAL, CHIP 220 0.5% 1/16W
801) R464	1-218-708-11 s METAL, CHIP 4.7K 0.5% 1/16W (for CA-702)	--->	DELETED.
	1-218-700-11 s METAL, CHIP 2.2K 0.5% 1/16W (for CA-702P)	--->	DELETED.
801) RV13	NOT IN USE.	--->	1-237-036-11 s RES, ADJ METAL 10K
811) C112	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	--->	1-107-686-11 s TANTALUM, CHIP 4.7uF 20% 16V
811) C114	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	--->	1-104-913-11 s TANTALUM, CHIP 10uF 20% 16V
811) C121	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	--->	1-104-913-11 s TANTALUM, CHIP 10uF 20% 16V
811) C150	NOT IN USE.	--->	1-162-915-11 s CERAMIC, CHIP 10PF 50V
811) C214	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	--->	DELETED.
811) C277	1-164-156-11 s CERAMIC, CHIP 0.1uF 25V	--->	DELETED.
811) C282	1-115-581-11 s TANTALUM, CHIP 100uF 20% 16V	--->	1-113-642-11 s TANTALUM, CHIP 47uF 20% 10V
811) IC2	--PENDING--- s IC CXD3300R	--->	8-752-376-32 s IC CXD2310AR
811) IC86	NOT IN USE.	--->	8-759-489-49 s IC TLC2262CPW-E05
811) Q26	NOT IN USE.	--->	8-729-403-29 s TRANSISTOR XN6435
811) R117	NOT IN USE.	--->	1-218-723-11 s METAL, CHIP 20K 0.5% 1/16W
811) R126	1-218-680-11 s METAL, CHIP 330 0.50% 1/16W	--->	1-218-684-11 s METAL, CHIP 470 0.50% 1/16W
811) R130	NOT IN USE.	--->	1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W
811) R132	NOT IN USE.	--->	1-218-720-11 s METAL, CHIP 15K 0.5% 1/16W
811) R133	NOT IN USE.	--->	1-218-668-11 s METAL, CHIP 100 0.5% 1/16W
811) R134	1-216-864-11 s METAL, CHIP 0 5% 1/16W	--->	1-218-704-11 s METAL, CHIP 3.3K 0.50% 1/16W
811) R136	NOT IN USE.	--->	1-218-668-11 s METAL, CHIP 100 0.5% 1/16W
811) R163	1-218-676-11 s METAL, CHIP 220 0.5% 1/16W	--->	1-218-660-91 s METAL, CHIP 47 0.5% 1/16W
811) R175	1-218-692-11 s METAL, CHIP 1K 0.5% 1/16W (for CA-702)	--->	1-218-694-11 s METAL, CHIP 1.2K 0.5% 1/16W (for CA-702)
	1-218-688-11 s METAL, CHIP 680 0.5% 1/16W (for CA-702P)	--->	1-218-690-11 s METAL, CHIP 820 0.5% 1/16W (for CA-702P)
811) R176	1-218-676-11 s METAL, CHIP 220 0.5% 1/16W (for CA-702)	--->	1-216-864-11 s METAL, CHIP 0 5% 1/16W (for CA-702)
	1-218-682-11 s METAL, CHIP 390 0.5% 1/16W (for CA-702P)	--->	1-218-678-11 s METAL, CHIP 270 0.5% 1/16W (for CA-702P)
811) R347	1-216-864-11 s METAL, CHIP 0 5% 1/16W	--->	DELETED.
811) R348	1-216-864-11 s METAL, CHIP 0 5% 1/16W	--->	DELETED.
811) R349	1-216-864-11 s METAL, CHIP 0 5% 1/16W	--->	DELETED.

DA-130/DA-130P BOARD
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711) RV1	1-237-034-11 s RES, ADJ METAL 2K	--->	1-237-035-11 s RES, ADJ METAL 5K
711) RV2	1-237-034-11 s RES, ADJ METAL 2K	--->	1-237-035-11 s RES, ADJ METAL 5K
711) RV3	1-237-034-11 s RES, ADJ METAL 2K	--->	1-237-035-11 s RES, ADJ METAL 5K
805) C9	1-162-918-11 s CERAMIC, CHIP 18PF 5% 50V	--->	1-162-915-11 s CERAMIC, CHIP 10PF 50V
805) R1	1-218-680-11 s METAL, CHIP 330 0.50% 1/16W	--->	1-218-676-11 s METAL, CHIP 220 0.5% 1/16W

Section 4
Semiconductor Pin Assignments

ここに記載されている半導体は，それぞれの機能を等価的に表したものです。　なお，互換性のない型名を併記していることがありますので，部品を交換するときは，Spare Partsの章を参照してください。
等価回路はICメーカーのデータブックに従いました。

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

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DIODE

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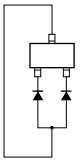
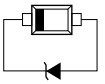


1SS300-TE85L

—TOP VIEW—



RD4.3UH-T1
RD6.2UJN-T1

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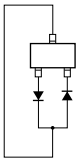
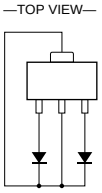


1SS302
1SS302-TE85L
HSM88AS
HSM88AS-TL

—TOP VIEW—

SB05-05CP
SB05-05CP-TB

—TOP VIEW—



ECL06B03-TE16F

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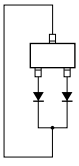

1SS301-TE85L
HSMP-3894
MA141WK
U2993

—TOP VIEW—

RD3.6M-B1
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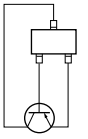
RD5.6M-B2
RD5.6M-T1B

TRANSISTOR

—TOP VIEW—



2SA1462
2SA1462-T1Y33Y34
2SA1610-T1Y33
2SA1610-Y33
2SA1611-M5M6
2SA1611T1-M5M6
2SB624-BV345
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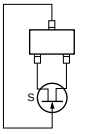
—TOP VIEW—



2SK711-BL
2SK711-BL/V-TE85L

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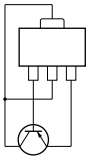

2SB1440S-TX

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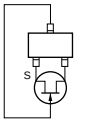
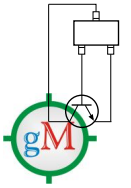


2SK853-K5
2SK853-T1K5

—TOP VIEW—



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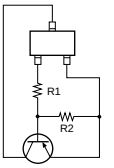
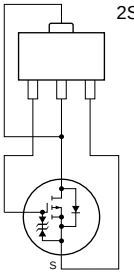
2SC4178-F14
2SD596DV345
2SD596T1-DV345

—TOP VIEW—



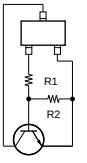
DTA144EUA-T106
(R1=47 K, R2=47 K)

—TOP VIEW—



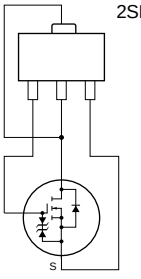
2SJ244JY-TL

—TOP VIEW—

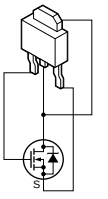


DTC144EUA-T106
(R1=47 K, R2=47 K)

—TOP VIEW—



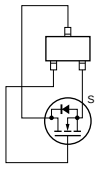
2SK1579DY-TL



MTD20N03HDL
MTD20N03HDL-T4

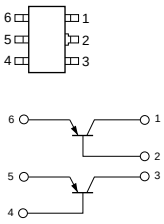
IC

—TOP VIEW—



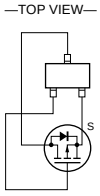
NDS355AN

—TOP VIEW—



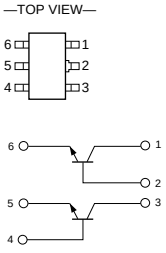
XN6435
XN6435-TW

—TOP VIEW—

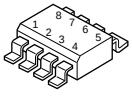


NDS356AP

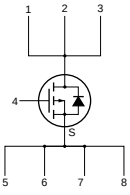
—TOP VIEW—

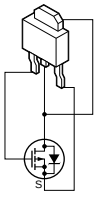


XN6501
XN6501-TW
XN6534
XN6534-TW



SI9435DY-T1





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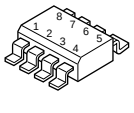
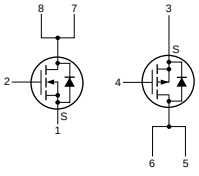


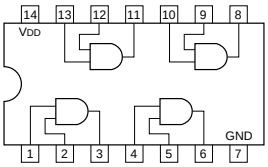
SI9958DY
SI9958DY-T1

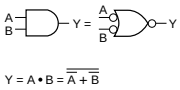


74LCX08MTCX (NS)
TC74VHC08FS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS QUAD 2-INPUT AND GATE

—TOP VIEW—





A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

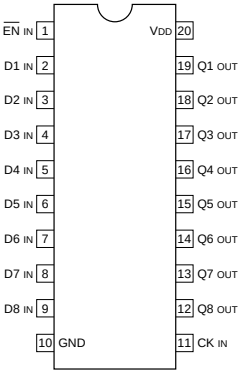
NOTE;

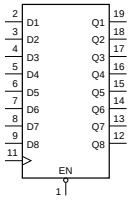
TYPE	VDD
74AC	+2 to +5.5V
40H	+2 to +8V
74ACT/74HCT/74VHCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPES	+2 to +6V

74LCX574MTCX (NS)FLAT PACKAGE
TC74VHC574FS (TOSHIBA)FLAT PACKAGE
TC74VHC574FS(EL)

C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP

—TOP VIEW—

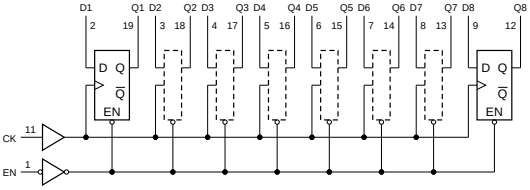




EACH FLIP-FLOP

INPUTS			OUT
EN	CK	D	Q
0	↑	1	1
0	↑	0	0
0	↓	×	Q0
1	×	×	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE
HI-Z ; HIGH IMPEDANCE
Q0 ; NO CHANGE

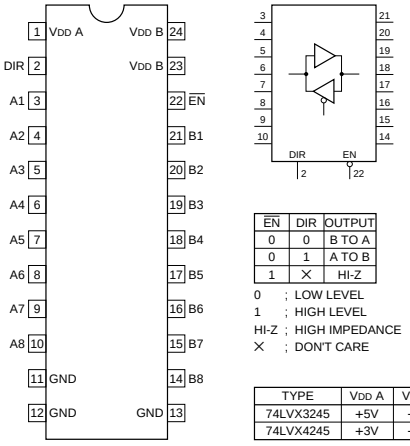


NOTE;

TYPE	VDD
74HC	+2 to +6V
74AC/74VHC	+2 to +5.5V
74ACT/74FCT 74HCT/74VHCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
74LVC	+2.7 to +3.6V

74LVX4245QSCX (NS)FLAT PACKAGE

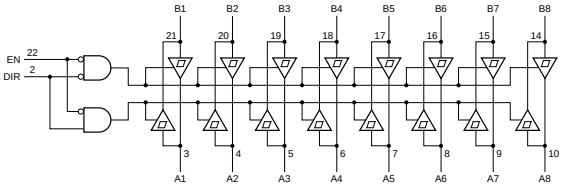
C-MOS 8-BIT DUAL SUPPLY VOLTAGE TRANSLATING TRANSCEIVER
—TOP VIEW—



EN	DIR	OUTPUT
0	0	B TO A
0	1	A TO B
1	×	HI-Z

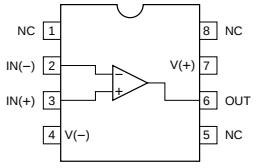
0 ; LOW LEVEL
1 ; HIGH LEVEL
HI-Z ; HIGH IMPEDANCE
× ; DON'T CARE

TYPE	VDD A	VDD B
74LVX3245	+5V	+3V
74LVX4245	+3V	+5V



AD8001AR-REEL (AD)FLAT PACKAGE

OPERATIONAL AMPLIFIER
—TOP VIEW—

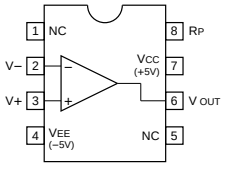


NOTE :

TYPE	POWER SUPPLY		
	DUAL	SINGLE	
		V(+)	V(–)
AD8001AR	±3 to ±6V	+6 to +12V	GND
AD8011AR	±5V	+5V	GND

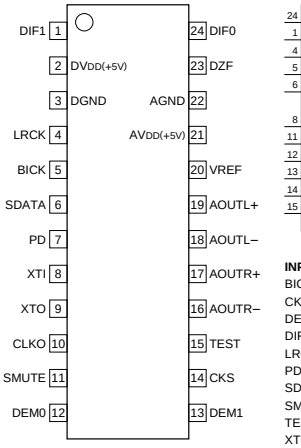
CLC505AJE (COMLINEAR)FLAT PACKAGE
CLC505AJE-T

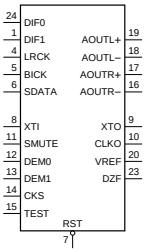
OPERATIONAL AMPLIFIER
—TOP VIEW—



AK4319-VM-E2 (ASAHIKASEI MICRO)FLAT PACKAGE

C-MOS 18-BIT D/A CONVERTER
—TOP VIEW—



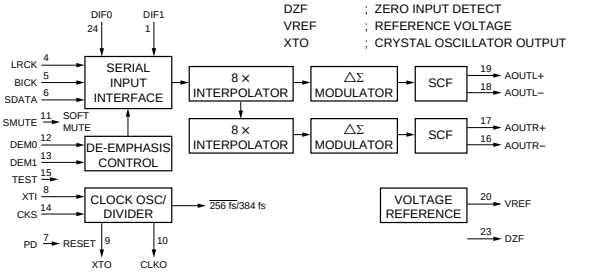


INPUTS

BICK ; SERIAL BIT CLOCK
CKS ; CLOCK SELECT (L : 256 fs/H : 384 fs)
DEM0, DEM1 ; DE-EMPHASIS SELECT
DIF0, DIF1 ; INPUT FORMAT SELECTS
LRCK ; L/R CLOCK
PD ; RESET
SDATA ; SERIAL DATA INPUT
SMUTE ; SOFT MUTE (H : MUTE)
TEST ; TEST
XTI ; CRYSTAL OSCILLATOR INPUT

OUTPUT

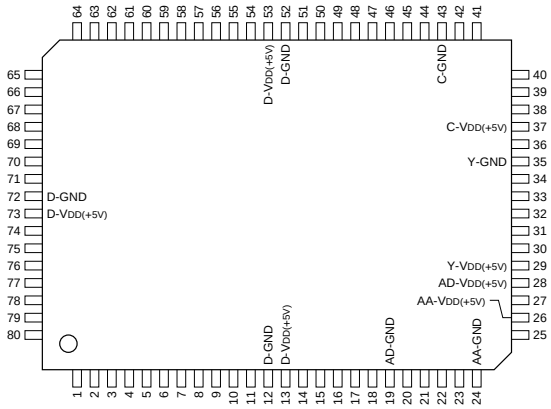
AOUTL+ ; L-CH ANALOG POSITIVE OUTPUT
AOUTL– ; L-CH ANALOG NEGATIVE OUTPUT
AOUTR+ ; R-CH ANALOG POSITIVE OUTPUT
AOUTR– ; R-CH ANALOG NEGATIVE OUTPUT
CLKO ; LOCAL OSCILLATOR CLOCK OUTPUT
DZF ; ZERO INPUT DETECT
VREF ; REFERENCE VOLTAGE
XTO ; CRYSTAL OSCILLATOR OUTPUT



CXD2024AQ (SONY)

C-MOS DIGITAL COMB FILTER (NTSC/PAL)

—TOP VIEW—



CXD2024AQ (2/5)

(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	VI8	21	I	CRV	41	I	CVRF	61	O	C6
2	I	VI7	22	O	RB	42	O	CIRF	62	O	C5
3	I	VI6	23	—	GR	43	—	C-GND	63	O	C4
4	I	VI5	24	—	AA-GND	44	O	YA	64	O	C3
5	I	VI4	25	I	ADIN	45	O	Y9	65	O	C2
6	I	VI3	26	—	AA-VDD	46	O	Y8	66	O	C1
7	I	VI2	27	O	RT	47	O	Y7	67	I	XCOE
8	I	VI1	28	—	AD-VDD	48	O	Y6	68	I	APCN
9	I	ADC0	29	—	Y-VDD	49	O	Y5	69	I	RATI
10	I	INSL	30	I	XAYO	50	O	Y4	70	I	NTPL
11	I	OCLK	31	O	AYO	51	O	Y3	71	I	TST
12	—	D-GND	32	O	YVG	52	—	D-GND	72	—	D-GND
13	—	D-VDD	33	I	YVRF	53	—	D-VDD	73	—	D-VDD
14	O	CLK0	34	O	YIRF	54	O	Y2	74	I	PNR
15	I	MCK	35	—	Y-GND	55	O	Y1	75	I	TEST
16	I	ADCK	36	O	VB	56	I	XYOE	76	I	TEST
17	I	CLPI	37	—	C-VDD	57	O	CA	77	I	TEST
18	I	XCPON	38	I	XACO	58	O	C9	78	I	TEST
19	—	AD-GND	39	O	ACO	59	O	C8	79	I	BPF
20	I	ICP	40	O	CVG	60	O	C7	80	I	TEST

INPUT

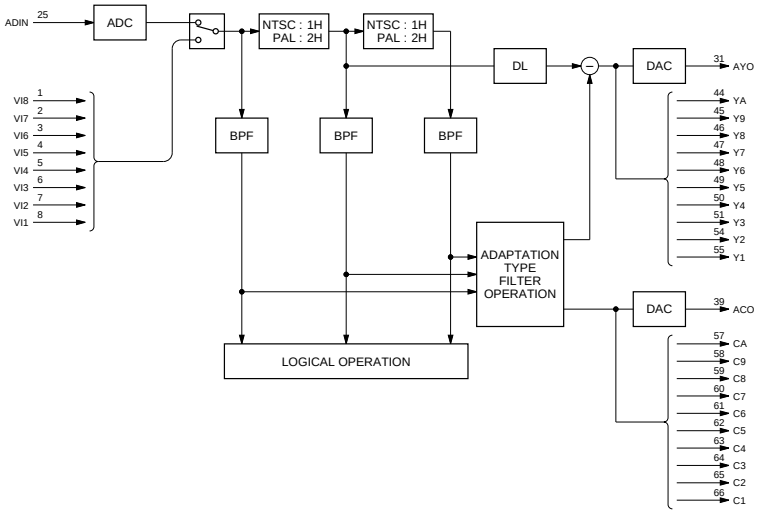
ADCK ; CLOCK FOR A/D CONVERTER
ADCO ; A/D CONVERTER OUTPUT SELECT
(H : DIGITAL OUTPUT MODE, L : STANDARD MODE)
ADIN ; COMB FILTER ANALOG DATA
APCN ; APERTURE COMPENSATION
(H : FREQUENCY RESPONSE DEGRADATION COMPENSATE BY APERTIRE EFFECT,
L : STANDARD)
BPF ; Y/C SEPARATE PROCESS MODE SETTING
(H : BPF SEPARATE MODE, L : ADAPTABILITY PROCESS MODE)
CLPI ; CLAMP PULSE FOR A/D CONVERTER
CRV ; CLAMP REFERENCE VOLTAGE
CVRF ; FULL SCALE VALUE SETTING OF ANALOG CHROMA SIGNAL
ICP ; VOLTAGE INTERGRATION FOR CLAMP CONTROL
INSL ; INPUT DATA SELECT OF COMB FILTER (H : DIGITAL INPUT, L : ANALOG INPUT)
MCK ; MASTER CLOCK
NTPL ; NTSC/PAL MODE SETTING (H : PAL, L : NTSC)
OCLK ; CLOCK AMPLIFIER
PNR ; DOT INTERFERENCE (PAL H : MINIMUM, L : BEFORE IMPROVEMENT
NTSC : L FIXED)
RATI ; RATIO SETTING (H : PAL (WHEN THE PNR IS ON, SET TO L FORCED), L : NTSC)
TEST ; TEST (NORMAL : L FIXED)
TST ; Y OUTPUT THROUGH MODE
(H : COMPOSITE VIDEO SIGNAL (TO AYO, YA-Y1) AND Y/C SEPARATED
CHROMA SIGNAL (TO ACO, CA-C1), L : Y-C SEPARATION MODE)
VI1 - VI8 ; DIGITAL DATA
XACO ; ANALOG CHROMA SIGNAL REVERSE CURRENT (CONNECTED TO C-GND)
XAYO ; ANALOG Y SIGNAL REVERSE CURRENT (CONNECTED TO Y-GND)
XCOE ; DIGITAL CHROMA SIGNAL OUTPUT CONTROL
(H : HIGH IMPEDANCE, L : STANDARD OUTPUT)
XCPON ; CLAMP SETTING FOR A/D CONVERTER
(H : A/D CONVERTER CAPABILITY, L : CLAMP CAPABILITY)
XYOE ; DIGITAL Y SIGNAL OUTPUT CONTROL
(H : HIGH IMPEDANCE, L : STANDARD OUTPUT)
YVRF ; FULL SCALE VALUE SETTING OF ANALOG Y SIGNAL

OUTPUT

ACO ; ANALOG CHROMA SIGNAL
AYO ; ANALOG Y SIGNAL
C1 - C9 ; DIGITAL CHROMA SIGNAL
CA ; DIGITAL CHROMA SIGNAL
CIRF ; EXTERNAL RESISTOR CONNECTION
CLKO ; CLOCK AMPLIFIER
CVG ; EXTERNAL CAPACITOR CONNECTION
RB ; STANDARD VALUE (+0.5V) OF REFERENCE VOLTAGE (BOTTOM)
RT ; STANDARD VALUE (+2.6V) OF REFERENCE VOLTAGE (TOP)
VB ; EXTERNAL CAPACITOR
Y1 - Y9 ; DIGITAL Y SIGNAL
YA ; DIGITAL Y SIGNAL
YIRF ; EXTERNAL RESISTOR CONNECTION
YVG ; EXTERNAL CAPACITOR CONNECTION

VDD (SUPPLY VOLTAGE = +5V)
AA-VDD ; ANALOG SUPPLY VOLTAGE FOR A/D CONVERTER
AD-VDD ; DIGITAL SUPPLY VOLTAGE FOR A/D CONVERTER
C-VDD ; ANALOG SUPPLY VOLTAGE FOR D/A CONVERTER (CHROMA)
D-VDD ; DIGITAL SUPPLY VOLTAGE
Y-VDD ; ANALOG SUPPLY VOLTAGE FOR D/A CONVERTER (Y)

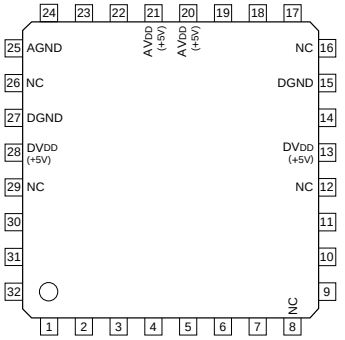
GND
AA-GND ; ANALOG GND FOR A/D CONVERTER
AD-GND ; DIGITAL GND FOR A/D CONVERTER
C-GND ; ANALOG GND FOR D/A CONVERTER (CHROMA)
D-GND ; DIGITAL GND
GR ; GARD RING (CONNECTED TO AA-GND)
Y-GND ; ANALOG GND FOR D/A CONVERTER (Y)

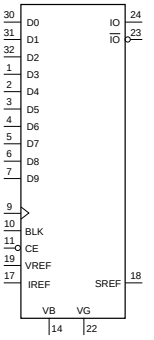


CXD2306Q (SONY)

C-MOS 10-BIT 1CH D/A CONVERTER

—TOP VIEW—





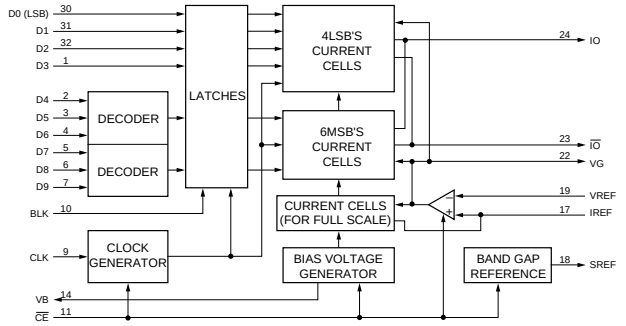
(AVDD, DVDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	D3	17	I	IREF
2	I	D4	18	O	SREF
3	I	D5	19	I	VREF
4	I	D6	20	—	AVDD
5	I	D7	21	—	AVDD
6	I	D8	22	O	VG
7	I	D9(MSB)	23	O	$\overline{IO}$
8	—	NC	24	O	IO
9	I	CK	25	—	AGND
10	I	BLK	26	—	NC
11	I	$\overline{CE}$	27	—	DGND
12	—	NC	28	—	DVDD
13	—	DVDD	29	—	NC
14	O	VB	30	I	D0(LSB)
15	—	DGND	31	I	D1
16	—	NC	32	I	D2

BLK ; BLANKING PULSE INPUT
CE ; CHIP ENABLE
CK ; CLOCK INPUT
D0 - 7 ; DIGITAL DATA INPUTS
$\overline{IO}$; CURRENT OUTPUT
$\overline{IO}$; INVERT CURRENT OUTPUT
IREF ; CURRENT REFERENCE INPUT
SREF ; INDEPENDENT CONSTANT VOLTAGE OUTPUT
VB, VG ; FOR CAPACITOR
VREF ; VOLTAGE REFERENCE INPUT

MAXIMUM CONVERSION RATE

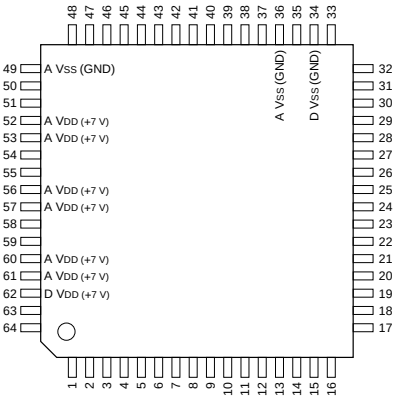
CXD2306Q	75MSPS
CXD2315Q	80MSPS

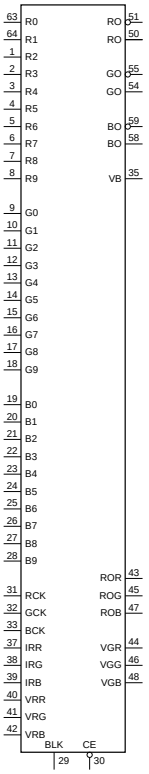


CXD2307R (SONY)FLAT PACKAGE
CXD2307R-T4 (SONY)FLAT PACKAGE
CXD2307R-T6

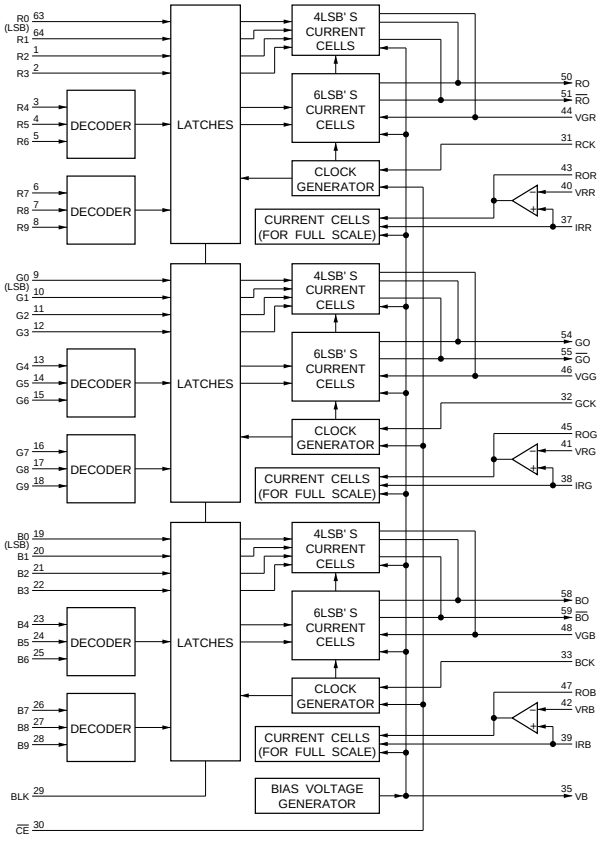
C-MOS 10-BIT 50 MSPS RGB 3CHANNEL D/A CONVERTER

—TOP VIEW—





PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	R2	17	I	G8	33	I	BCK	49	—	AVSS
2	I	R3	18	I	G9	34	—	DVSS	50	O	RO
3	I	R4	19	I	B0 (LSB)	35	O	VB	51	O	$\overline{RO}$
4	I	R5	20	I	B1	36	—	AVSS	52	—	AVDD
5	I	R6	21	I	B2	37	I	IRR	53	—	AVDD
6	I	R7	22	I	B3	38	I	IRG	54	O	GO
7	I	R8	23	I	B4	39	I	IRB	55	O	$\overline{GO}$
8	I	R9	24	I	B5	40	I	VRR	56	—	AVDD
9	I	G0 (LSB)	25	I	B6	41	I	VRG	57	—	AVDD
10	I	G1	26	I	B7	42	I	VRB	58	O	BO
11	I	G2	27	I	B8	43	I	ROR	59	O	$\overline{BO}$
12	I	G3	28	I	B9	44	I	VGR	60	—	AVDD
13	I	G4	29	I	BLK	45	I	ROG	61	—	AVDD
14	I	G5	30	I	$\overline{CE}$	46	I	VGG	62	—	DVDD
15	I	G6	31	I	RCK	47	I	ROB	63	I	R0 (LSB)
16	I	G7	32	I	GCK	48	I	VGB	64	I	R1

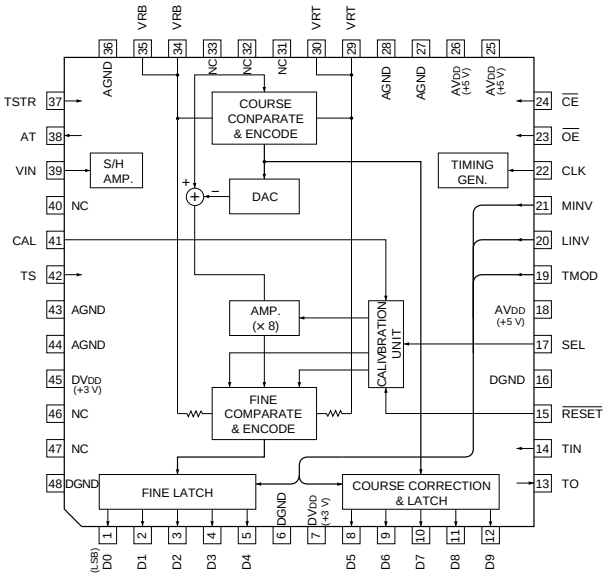


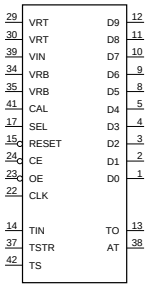
http://getMANUAL.com

CXD2310AR-T4 (SONY)

C-MOS 10-BIT 20 MSPS VIDEO A/D CONVERTER

—TOP VIEW—





INPUT

CAL	;	CALIBRATION PULSE INPUT
CE	;	CHIP ENABLE
CLK	;	CLOCK
LINV	;	OUTPUT (D0 - D8) INVERSION
MINV	;	OUTPUT (D9) INVERSION
OE	;	DIGITAL DATA OUTPUT ENABLE
RESET	;	CALIBRATION CIRCUIT RESET
SEL	;	OUTPUT DATA (D5 - D9) SELECT FOR CALIBRATION (4-CLOCK) HIGH ; THROUGH OUTPUT, OW ; DATA FIXED AS WITH D0 - D4
TIN	;	TEST SIGNAL INPUT
TMOD	;	TEST MODE
TS	;	TEST SIGNAL INPUT
TSTR	;	TEST SIGNAL INPUT
VRB	;	REFERENCE BOTTOM VOLTAGE
VRT	;	REFERENCE TOP VOLTAGE

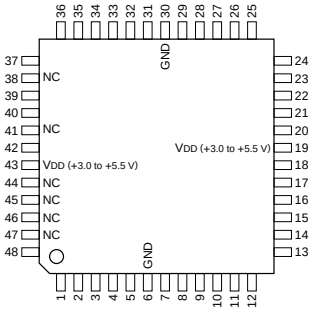
OUTPUT

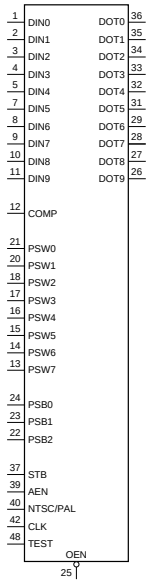
AT	;	TEST SIGNAL OUTPUT
D0 - D9	;	DIGIRAL DATA OUTPUT
TO	;	TEST PIN

CXD3122R (SONY)

C-MOS DIGITAL LINE MEMORY

—TOP VIEW—





(VDD = +3.3 to +5.5 V)

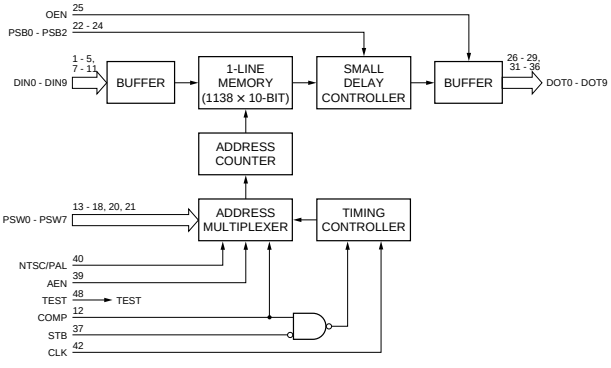
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	DIN0	25	I	OEN
2	I	DIN1	26	O	DOT9
3	I	DIN2	27	O	DOT8
4	I	DIN3	28	O	DOT7
5	I	DIN4	29	O	DOT6
6	—	GND	30	—	GND
7	I	DIN5	31	O	DOT5
8	I	DIN6	32	O	DOT4
9	I	DIN7	33	O	DOT3
10	I	DIN8	34	O	DOT2
11	I	DIN9	35	O	DOT1
12	I	COMP	36	O	DOT0
13	I	PSW7	37	I	STB
14	I	PSW6	38	—	NC
15	I	PSW5	39	I	AEN
16	I	PSW4	40	I	NTSC/PAL
17	I	PSW3	41	—	NC
18	I	PSW2	42	I	CLK
19	—	VDD	43	—	VDD
20	I	PSW1	44	—	NC
21	I	PSW0	45	—	NC
22	I	PSB2	46	—	NC
23	I	PSB1	47	—	NC
24	I	PSB0	48	I	TEST

INPUT

AEN	:	AMOUNT OF DELAY SELECT
CLK	:	CLOCK
COM	:	COMPATIBILITY SELECT
DIN0 - DIN9	:	DATA
NTSC/PAL	:	AMOUNT OF DELAY FOR NTSC/PAL/SECAM SELECT
OEN	:	OUTPUT ENABLE
PSB0 - PSB2	:	NUMBER OF SMALL DELAY SETTING
PSW0 - PSW7	:	NUMBER OF DELAY SETTING
STB	:	STANDBY
TEST	:	TEST

OUTPUT

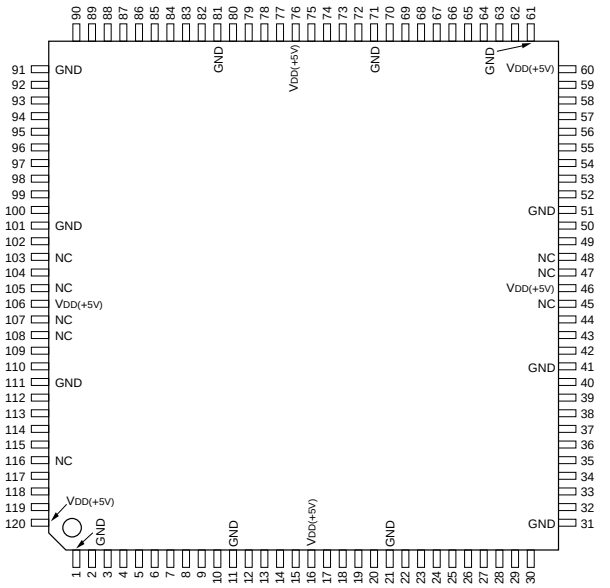
DOT0 - DOT9	:	DATA



CXD8280AQ (SONY)

C-MOS DIGITAL AUDIO TIME BASE EXPANSION FOR SIF RECEIVER

—TOP VIEW—



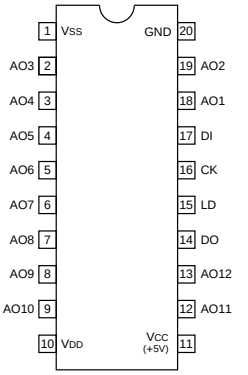
VDD = +5 V

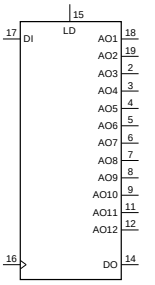
PIN NO.	I/O	SIGNAL	DESCRIPTION	PIN NO.	I/O	SIGNAL	DESCRIPTION
1	—	GND		61	—	GND	
2	I	XMM	TEST	62	I	OECRD	OUTPUT ENABLE FOR PIN 52 - 59
3	I	CLR	POWER ON CLEAR	63	I	CRA0	BUS READ ADDRESS 0
4	O	HIGH	TEST (ALWAYS H)	64	I	CRA1	BUS READ ADDRESS 1
5	O	RERR	TEST (R-ERROR)	65	I	CRA2	BUS READ ADDRESS 2
6	O	MON4	TEST (DELAY CH-4)	66	I	CRA3	BUS READ ADDRESS 3
7	O	MON3	TEST (DELAY CH-3)	67	I	CRA4	BUS READ ADDRESS 4
8	O	MON2	TEST (DELAY CH-2)	68	I	CRA5	BUS READ ADDRESS 5
9	O	MON1	TEST (DELAY CH-1)	69	I	DRA6	BUS READ ADDRESS 6
10	I	OEMON	OUTPUT ENABLE FOR PIN 4 - 9	70	I	CREN	BUS ADDRESS LATCH ENABLE
11	—	GND		71	—	GND	
12	I	ITA	TEST	72	O	ERROR1	CH-1 ERROR FLAG
13	I	ITB	TEST	73	O	ERROR2	CH-2 ERROR FLAG
14	I	ITC	TEST	74	O	ERROR3	CH-3 ERROR FLAG
15	I	ITD	TEST	75	O	ERROR4	CH-4 ERROR FLAG
16	—	VDD		76	—	VDD	
17	I	INTP4	CH-4 AUDIO INTERPOLATE	77	O	EXIST1	CH-1 EXIST
18	I	INTP3	CH-3 AUDIO INTERPOLATE	78	O	EXIST2	CH-2 EXIST
19	I	INTP2	CH-2 AUDIO INTERPOLATE	79	O	EXIST3	CH-3 EXIST
20	I	INTP1	CH-1 AUDIO INTERPOLATE	80	O	EXIST4	CH-4 EXIST
21	—	GND		81	—	GND	
22	I	CHEX1	CHANNEL EXCHANGE 1	82	O	DIDPER	DID PARITY ERROR
23	I	CHEX0	CHANNEL EXCHANGE 0	83	O	DIDERR	DID UNMATCH ERROR
24	I	AFS	AUDIO FORMAT SELECT	84	O	DBNPER	DBN PARITY ERROR
25	I	LRS	AUDIO LEFT/RIGHT BIT SELECT	85	O	DBNERR	DBN UNCONTINUITY ERROR
26	I	DIR	AUDIO LSB/MSB FIRST SELECT	86	O	DCPER	DC PARITY ERROR
27	I	20/16	AUDIO 20-BIT/16-BIT SELECT	87	O	DCERR	DC UNMATCH ERROR
28	O	WERR	TEST (W-ERROR)	88	O	UDPER	UD PARITY ERROR
29	O	Z3/4	CH-3/4 BLOCK SYNC (Z-FLAG)	89	O	CSERR	CHECKSUM ERROR
30	O	Z1/2	CH-1/2 BLOCK SYNC (Z-FLAG)	90	I	OEERR	OUTPUT ENABLE FOR PIN 82 - 89
31	—	GND		91	—	GND	
32	O	C3/4	CH-3/4 CHANNEL STATUS BIT	92	I	VIDEO0	VIDEO DATA 0
33	O	C1/2	CH-1/2 CHANNEL STATUS BIT	93	I	VIDEO1	VIDEO DATA 1
34	O	U3/4	CH-3/4 USER BIT	94	I	VIDEO2	VIDEO DATA 2
35	O	U1/2	CH-1/2 USER BIT	95	I	VIDEO3	VIDEO DATA 3
36	O	V3/4	CH-3/4 VALIDITY FLAG	96	I	VIDEO4	VIDEO DATA 4
37	O	V1/2	CH-1/2 VALIDITY FLAG	97	I	VIDEO5	VIDEO DATA 5
38	O	AD3/4	CH-3/4 AUDIO DATA	98	I	VIDEO6	VIDEO DATA 6
39	O	AD1/2	CH-1/2 AUDIO DATA	99	I	VIDEO7	VIDEO DATA 7
40	I	OEAD	OUTPUT ENABLE FOR PIN 29 - 39	100	I	VIDEO8	VIDEO DATA 8
41	—	GND		101	—	GND	
42	I	BCK	AUDIO BIT CLOCK	102	I	VIDEO9	VIDEO DATA 9
43	I	LRCK	AUDIO L/R CLOCK	103	—	NC	
44	O	CMYW	TEST	104	I	525/625	525/625 SELECT
45	—	NC		105	—	NC	
46	—	VDD		106	—	VDD	
47	—	NC		107	—	NC	
48	—	NC		108	—	NC	
49	I	TEST	TEST	109	—	NC	
50	I	CRCK	BUS ADDRESS LATCH CLOCK	110	I	VCK	VIDEO CLOCK
51	—	GND		111	—	GND	
52	O	CRD7	BUS READ DATA 7	112	I	D2/D1	D2/D1 SELECT
53	O	CRD6	BUS READ DATA 6	113	I	DID1	DID BIT1
54	O	CRD5	BUS READ DATA 5	114	I	DID2	DID BIT2
55	O	CRD4	BUS READ DATA 4	115	I	ERDB	ERROR OVERRIDE FOR DEBUG
56	O	CRD3	BUS READ DATA 3	116	—	NC	
57	O	CRD2	BUS READ DATA 2	117	O	EDHF	EDH FULL FIELD ERROR
58	O	CRD1	BUS READ DATA 1	118	O	EDHA	EDH ACTIVE PICTURE ERROR
59	O	CRD0	BUS READ DATA 0	119	O	OVFS	TEST
60	—	VDD		120	—	VDD	

M62352GP (MITSUBISHI)FLAT PACKAGE
M62352GP-75ED

C-MOS 8-BIT × 12 CHANNEL D/A CONVERTER
(WITH BUFFER OPERATIONAL AMPLIFIER)

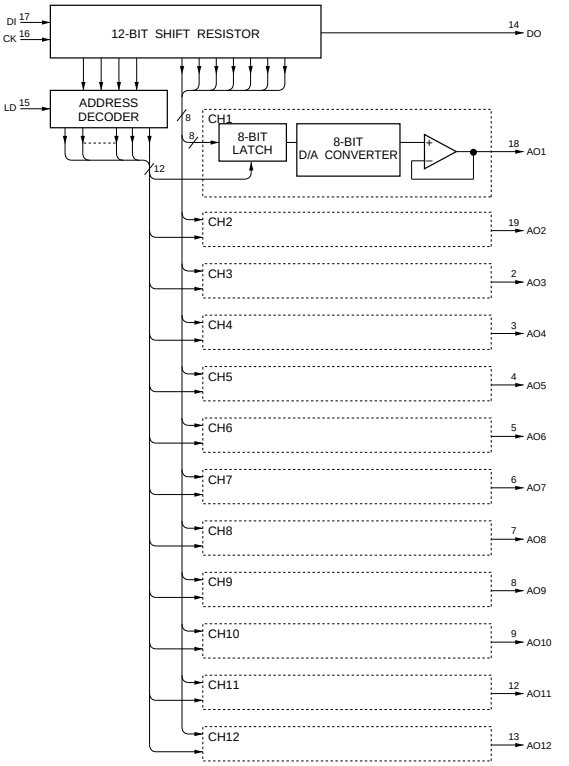
—TOP VIEW—





AO1 - AO12 ; 8-BIT D/A OUTPUTS
CK ; CLOCK INPUT
DI ; SERIAL DATA INPUT
DO ; DATA OUTPUT

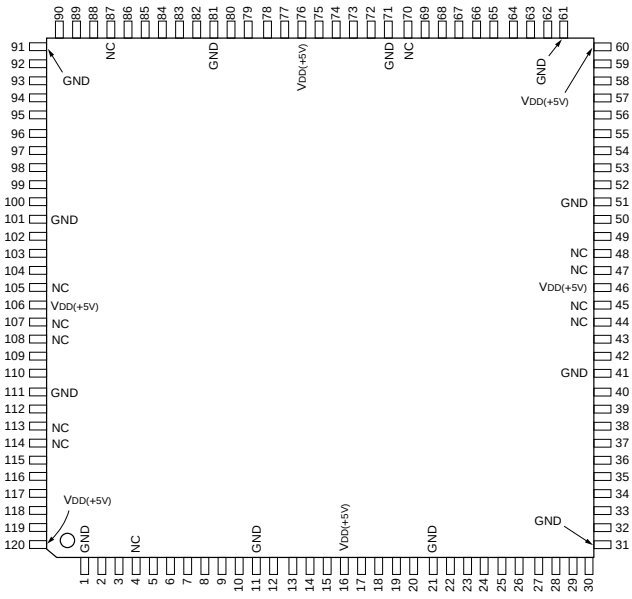
NOTE:
3.5 V < VDD < VCC
–3.5 V < VSS < VCC



CXD8281Q (SONY)

C-MOS DIGITAL AUDIO TIME BASE COMPRESSION FOR SIF TRANSMITER

—TOP VIEW—



(VDD = +5V)

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	GND	31	—	GND	61	—	GND	91	—	GND
2	IU	$\overline{IT1}$	32	ID	C3/4	62	IU	CWA0 (LSB)	92	OT	AUX0 (LSB)
3	IU	$\overline{CLR}$	33	ID	C1/2	63	IU	CWA1	93	OT	AUX1
4	—	NC	34	ID	U3/4	64	IU	CWA2	94	OT	AUX2
5	O	OT1	35	ID	U1/2	65	IU	CWA3 (MSB)	95	OT	AUX3
6	O	OT2	36	ID	V3/4	66	IU	CWEN	96	OT	AUX4
7	O	OT3	37	ID	V1/2	67	IU	$\overline{IT3}$	97	OT	AUX5
8	O	OT4	38	ID	AD3/4	68	IU	$\overline{IT4}$	98	OT	AUX6
9	O	OT5	39	ID	AD1/2	69	IU	$\overline{IT5}$	99	OT	AUX7
10	O	OT6	40	ID	BCK	70	—	NC	100	OT	AUX8
11	—	GND	41	—	GND	71	—	GND	101	—	GND
12	O	OT7	42	ID	128CK	72	IU	DID0	102	OT	AUX9 (MSB)
13	O	OT8	43	IU	LRCK	73	IU	DID1	103	O	ADBT
14	O	OT9	44	—	NC	74	IU	LIM0	104	ID	$\overline{OEAUX}$
15	O	OT10	45	—	NC	75	IU	LIM1	105	—	NC
16	—	VDD	46	—	VDD	76	—	VDD	106	—	VDD
17	O	OT11	47	—	NC	77	IU	$\overline{CHS1}$	107	—	NC
18	O	OT12	48	—	NC	78	IU	$\overline{CHS2}$	108	—	NC
19	O	OT13	49	IU	$\overline{IT2}$	79	IU	$\overline{CHS3}$	109	IU	SYNC
20	O	OT14	50	IU	CWCK	80	IU	$\overline{CHS4}$	110	ID	VCK
21	—	GND	51	—	GND	81	—	GND	111	—	GND
22	IU	CHEX1	52	IU	CWD7 (MSB)	82	IU	DLY0 (LSB)	112	IU	D2/D1
23	IU	CHEX0	53	IU	CWD6	83	IU	DLY1	113	—	NC
24	IU	AFS	54	IU	CWD5	84	IU	DLY2	114	—	NC
25	IU	LRS	55	IU	CWD4	85	IU	DLY3	115	O	OT15
26	IU	DIR	56	IU	CWD3	86	IU	DLY4 (MSB)	116	O	OT16
27	IU	20/16	57	IU	CWD2	87	—	NC	117	O	OT17
28	IU	ZCS	58	IU	CWD1	88	O	AUXT	118	O	OT18
29	ID	Z3/4	59	IU	CWD0 (LSB)	89	O	UDT	119	O	OY19
30	ID	Z1/2	60	—	VDD	90	O	ADFT	120	—	VDD

U ; INPUT WITH PULL-UP REGISTER
D ; INPUT WITH PULL-DOWN REGISTER
OT ; TRI-STATE OUTPUT

INPUT (WITH PULL-DOWN REGISTER)

128CK	; DIGITAL AUDIO 128 x Fs CLOCK
AD1/2	; DIGITAL AUDIO CH-1/2 DATA
AD3/4	; DIGITAL AUDIO CH-3/4 DATA
BCK	; DIGITAL AUDIO BIT CLOCK (=64 x Fs)
C1/2	; DIGITAL AUDIO CH-1/2 CHANNEL STATUS BIT
C3/4	; DIGITAL AUDIO CH-3/4 CHANNEL STATUS BIT
$\overline{OEAUX}$	; OUTPUT ENABLE FOR AUX0–9 (L)
U1/2	: DIGITAL AUDIO CH-1/2 USER DATA BIT
U3/4	: DIGITAL AUDIO CH-3/4 USER DATA BIT
V1/2	: DIGITAL AUDIO CH-1/2 VALIDITY FLAG
V3/4	: DIGITAL AUDIO CH-3/4 VALIDITY FLAG
VCK	; VIDEO CLOCK (=4Fsc) INPUT
Z1/2	: DIGITAL AUDIO CH-1/2 BLOCK SYNC (Z-FLAG)
Z3/4	: DIGITAL AUDIO CH-3/4 BLOCK SYNC (Z-FLAG)

INPUT (WITH PULL-UP REGISTER)

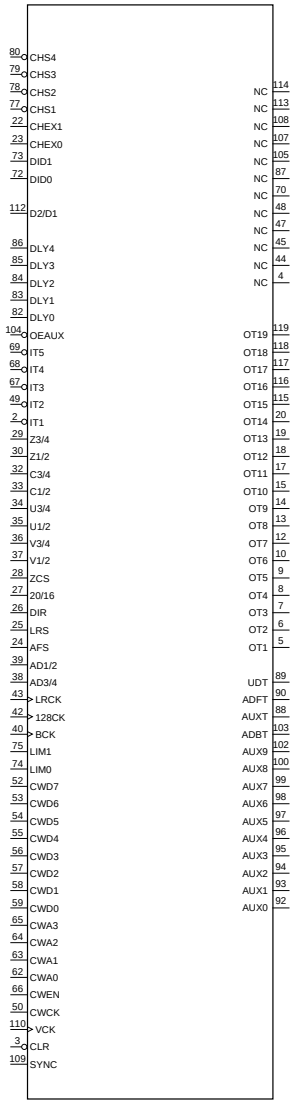
20/16	; DIGITAL AUDIO 20BIT/16BIT SELECT
AFS	; DIGITAL AUDIO FORMAT SELECT
CHEX0, 1	; CHANNEL EXCHANGE 0, 1
$\overline{CHS1}$ - $\overline{CHS4}$	; AUDIO CH1–CH4 OUTPUT SELECT (L)
$\overline{CLR}$	; POWER ON CLEAR (L)
CWA0 - CWA3	; CHANNEL STATUS REGISTER WRITE ADDRESS 0 - 3
CWCK	; CHANNEL STATUS REGISTER WRITE CLOCK
CWD0 - CWD7	; CHANNEL STATUS REGISTER WRITE DATA 0 - 7
CWEN	; CHANNEL STATUS REGISTER WRITE ENABLE
D2/D1	; VIDEO FORMAT D2/D1 SELECT
DID0, 1	; DATA ID BIT0, 1
DIR	; DIGITAL AUDIO MSB FIRST/LSB FIRST SELECT
DLY0 - DLY4	; DELAY CONTROL BIT0 - BIT3
$\overline{IT1}$ - $\overline{IT5}$	; TEST (L)
LIM0, 1	; LINE MODE 0, 1
LRCK	; DIGITAL AUDIO L/R CLOCK (=Fs)
LRS	; DIGITAL AUDIO LEFT/RIGHT BIT POSITION SELECT
SYNC	; VIDEO SYNC INPUT
ZCS	; DIGITAL AUDIO Z-FLAG C-BIT SELECT

OUTPUT

ADBT	; AUX. DATA BLOCK TIMING
ADFT	; AUX. DATA FLAG TIMING
AUXT	; AUX. DATA TIMING
OT1 = OT19	; TEST
UDT	; USER DATA TIMING

OUTPUT (TRI-STATE)

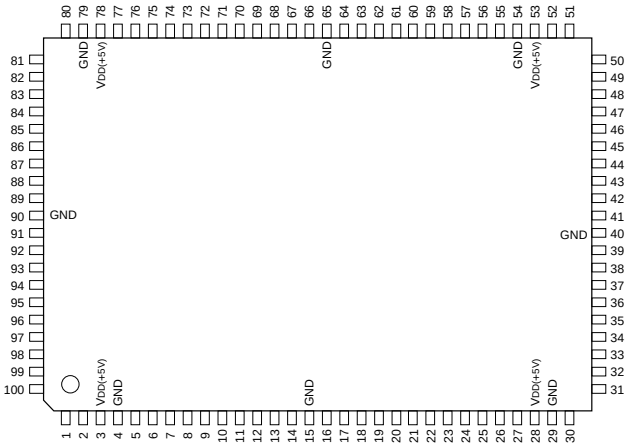
AUX0 - AUX9	; AUX. DATA 0 - 9



CXD8385Q (SONY)

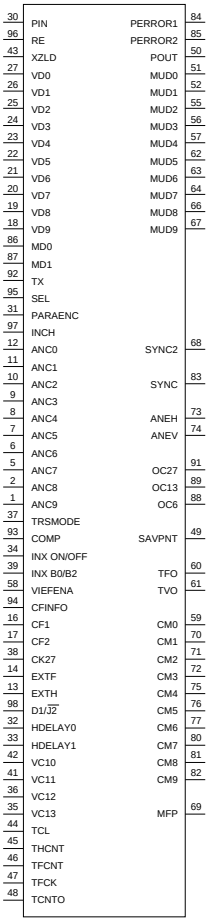
C-MOS ENCODER

—TOP VIEW—



(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	ANC9	26	I	VD1	51	O	MUD0	76	O	CM5
2	I	ANC8	27	I	VD0	52	O	MUD1	77	O	CM6
3	—	VDD	28	—	VDD	53	—	VDD	78	—	VDD
4	—	GND	29	—	GND	54	—	GND	79	—	GND
5	I	ANC7	30	I	PIN	55	O	MUD2	80	O	CM7
6	I	ANC6	31	I	PARAENC	56	O	MUD3	81	O	CM8
7	I	ANC5	32	I	HDELAY0	57	O	MUD4	82	O	CM9
8	I	ANC4	33	I	HDELAY1	58	I	VIEFENA	83	O	SYNC
9	I	ANC3	34	I	INX ON/OFF	59	O	CM0	84	O	PERROR1
10	I	ANC2	35	I	VC13	60	O	TFO	85	O	PERROR2
11	I	ANC1	36	I	VC12	61	O	TVO	86	I	MD0
12	I	ANC0	37	I	TRS MODE	62	O	MUD5	87	I	MD1
13	I	EXTH	38	I	CK27	63	O	MUD6	88	O	OC6
14	I	EXTF	39	I	INX B0/B2	64	O	MUD7	89	O	OC13
15	—	GND	40	—	GND	65	—	GND	90	—	GND
16	I	CF1	41	I	VC11	66	O	MUD8	91	O	OC27
17	I	CF2	42	I	VC10	67	O	MUD9	92	I	TX
18	I	VD9	43	I	XZLD	68	O	SYNC2	93	I	COMP
19	I	VD8	44	I	TCL	69	O	MFP	94	I	CFINFO
20	I	VD7	45	I	THCNT	70	O	CM1	95	I	SEL
21	I	VD6	46	I	TFCNT	71	O	CM2	96	I	RE
22	I	VD5	47	I	TFCK	72	O	CM3	97	I	INCH
23	I	VD4	48	I	TCNTO	73	O	ANEH	98	I	D1/$\overline{J2}$
24	I	VD3	49	O	SAVPNT	74	O	ANEV	99	I	SLNP
25	I	VD2	50	O	POUT	75	O	CM4	100	I	ANIS

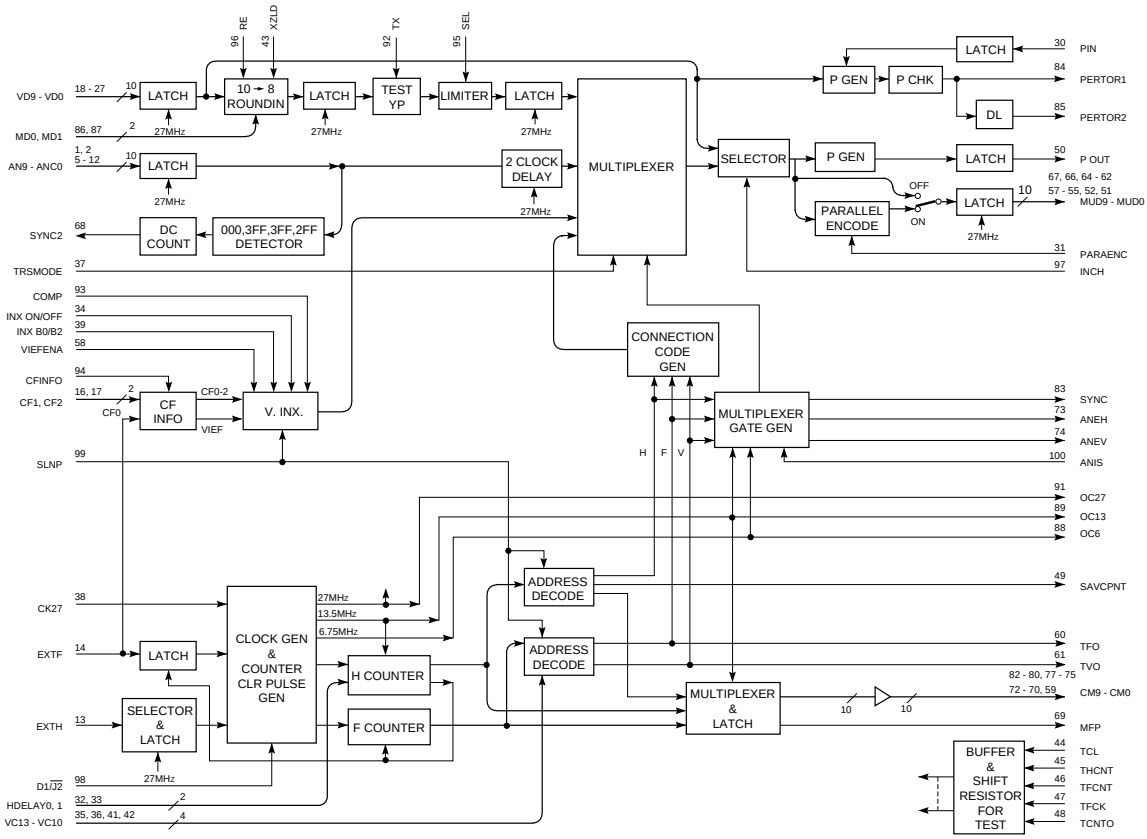


INPUT

ANC0 - ANC9	;	ANCILLARY DATA
ANIS	;	ANC GATE CONTROL
CF1/CF2	;	CF DATA
CFINFO	;	CFINFO CONTROL
CK27	;	27 MHz CLOCK
COMP	;	COMPOSIT/COMPONENT
D1/J2, SLNP	;	MODE CONTROL
EXTF	;	REF F
EXTH	;	REF H
HDELAY0, HDELAY1	;	JZ REF H TRS ADVANCE CONTROL
INCH, TCL, TCNTO, TFCK, TFCNT, THCNT, XZLD	;	TEST PIN
INX ON/OFF, INX B0/B2 VIEFENA	;	V. INX. CONTROL
PARAENC	;	SCRAMBLE NRZ CONVERT ON/OFF
PIN	;	PARITY
RE	;	ROUND CONTROL
TRSMODE	;	TRS 10-BIT/8-BIT SELECT
TX	;	TEST PIN
VC10 - VC13	;	525/60 V BLANK CONTROL
VD0 - VD9	;	VIDEO DATA

OUTPUT

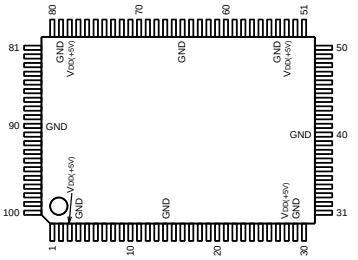
ANEH, ANEV	;	PULSE
CM0 - CM9	;	H, F COUNTER
MFP	;	MULTIPLEX F COUNTER PULSE
MUD0 - MUD9	;	VIDEO DATA
OC13	;	13.5 MHz CLOCK
OC27	;	27 MHz CLOCK
OC6	;	6.75 MHz CLOCK
PERROR1, PERROR2	;	PARITY ERROR DETECT
POUT	;	PARITY
SAVPNT	;	SAV PULSE
SYNC, SYNC2	;	TIMING PULSE
TFO	;	F MONITOR
TVO	;	V MONITOR


VD9 - VD0
MD0, MD1
AN9 - ANC0
SYNC2
TRSMODE
COMP
INX ON/OFF
INX B0/B2
VIEFENA
CFINFO
CF1, CF2
SLNP
CK27
EXTF
EXTH
D1/J2
HDELAY0, 1
VC13 - VC10
LATCH
10 → 8 ROUNDIN
TEST YP
LIMITER
2 CLOCK DELAY
MULTIPLEXER
DC COUNT
000,3FF,3FF,2FF DETECTOR
CF INFO
V. INX.
CONNECTION CODE GEN
MULTIPLEXER GATE GEN
CLOCK GEN & COUNTER CLR PULSE GEN
H COUNTER
F COUNTER
SELECTOR & LATCH
ADDRESS DECODE
ADDRESS DECODE
MULTIPLEXER & LATCH
SELECTOR
P GEN
P CHK
DL
P GEN
PARALLEL ENCODE
OFF
ON
BUFFER & SHIFT RESISTOR FOR TEST
27MHz
13.5MHz
6.75MHz
PIN
PERTOR1
PERTOR2
P OUT
MUD9 - MUD0
PARAENC
INCH
SYNC
ANEH
ANEV
ANIS
OC27
OC13
OC6
SAVCPNT
TFO
TVO
CM9 - CM0
MFP
TCL
THCNT
TFCNT
TFCK
TCNTO

CXD8386AQ (SONY)

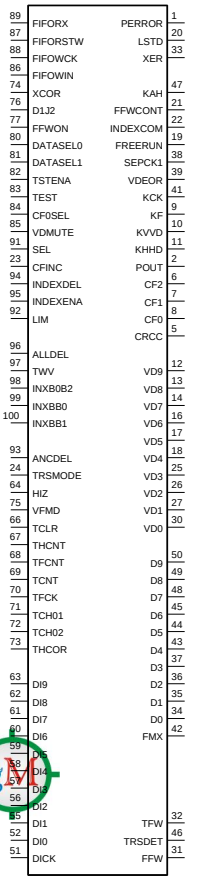
C-MOS 4 : 2 : 2 COMPONENT DECODER

—TOP VIEW—



(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	PERROR	26	O	VD2	51	I	DICK	76	I	D1J2
2	O	POUT	27	O	VD1	52	I	DI0	77	I	FFWON
3	—	VDD	28	—	VDD	53	—	VDD	78	—	VDD
4	—	GND	29	—	GND	54	—	GND	79	—	GND
5	O	CRCC	30	O	VD0	55	I	DI1	80	I	DATASEL0
6	O	CF2	31	O	FFW	56	I	DI2	81	I	DATASEL1
7	O	CF1	32	O	TFW	57	I	DI3	82	I	TSTENA
8	O	CF0	33	O	XER	58	I	DI4	83	I	TEST
9	O	KF	34	O	D0	59	I	DI5	84	I	CF0SEL
10	O	KVVD	35	O	D1	60	I	DI6	85	I	VDMUTE
11	O	KHHD	36	O	D2	61	I	DI7	86	I	FIFOWIN
12	O	VD9	37	O	D3	62	I	DI8	87	I	FIFORSTW
13	O	VD8	38	O	SEPCK1	63	I	DI9	88	I	FIFOWCK
14	O	VD7	39	O	VDEOR	64	I	HIZ	89	I	FIFORX
15	—	GND	40	—	GND	65	—	GND	90	—	GND
16	O	VD6	41	O	KCK	66	I	TCLR	91	I	SEL
17	O	VD5	42	O	FMX	67	I	THCNT	92	I	LIM
18	O	VD4	43	O	D4	68	I	TFCNT	93	I	ANCDEL
19	O	FREERUN	44	O	D5	69	I	TCNT	94	I	INDEXDEL
20	O	LSTD	45	O	D6	70	I	TFCK	95	I	INDEXENA
21	O	FFWCONT	46	O	TRSDET	71	I	TCH01	96	I	ALLDEL
22	O	INDEXCOM	47	O	KAH	72	I	TCH02	97	I	TWV
23	I	CFINC	48	O	D7	73	I	THCOR	98	I	INXB0B2
24	I	TRSMODE	49	O	D8	74	I	XCOR	99	I	INXBB0
25	O	VD3	50	O	D9	75	I	VFMD	100	I	INXBB1

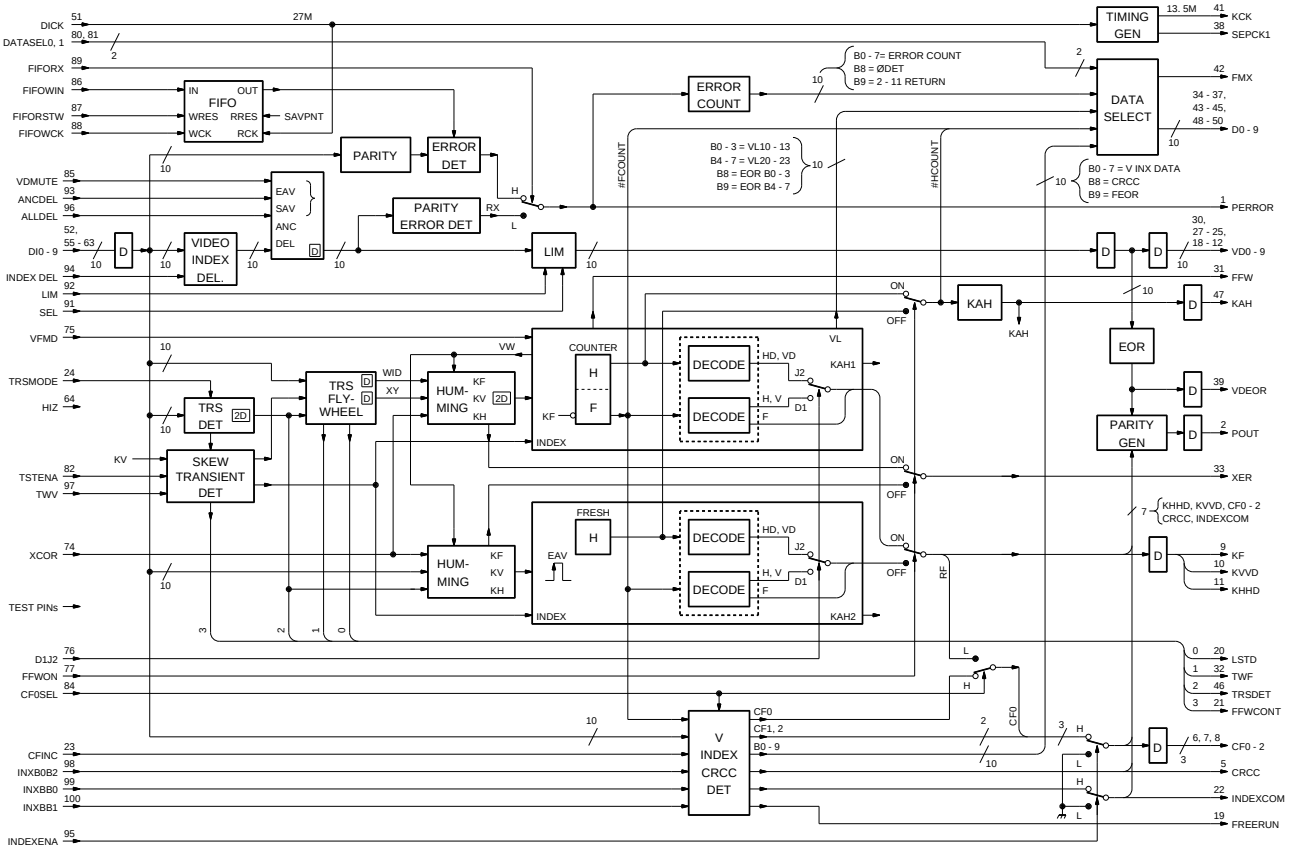


INPUT

ALLDEL ; DELETE CONTROL FOR BETWEEN EAV AND SAV
ANCDEL ; ANC DELETE CONTROL
CF0SEL ; CF0 SELECT
CFINC ; CF INCRIMENT CONTROL
D1J2 ; MODE SELECT
DATASEL0, 1 ; D0 - D9 DATA CONTROL
DI0 - 9 ; VIDEO DATA BUS
DICK ; 27MHz CLOCK
FFWON ; SYNCHRONIZE SYSTEM FLYWHEEL/DIRECT SELECT
FIFORSTW, FIFORX, FIFOWCK, FIFOWIN ; SELF-DIAGNOSIS
HIZ ; OUTPUT SYSTEM HI-IMPEDANCE CONTROL
INDEXDEL ; INX DELETE CONTROL
INDEXENA ; INX ENABLE CONTROL
INXB0B2 ; INX CONTROL
INXBB0, 1 ; MOTOR CONTROL
LIM ; LIMITER ON/OFF CONTROL
SEL ; LIMITER MODE SELECT
TCH01 - 02, TCLR, TCNT, TFCK, TFCNT, THCNT, THCOR, TSTENA ; FOR TEST
TRSMODE ; TRS DETECT MODE SELECT
TWV ; NOT CONSECUTIVE DETECT CONTROL
VDMUTE ; MUTE CONTROL
VFMD ; 525,V HYSTERESIS PROCESS
XCOR ; TRS XY-BYTE PROCESS

OUTPUT

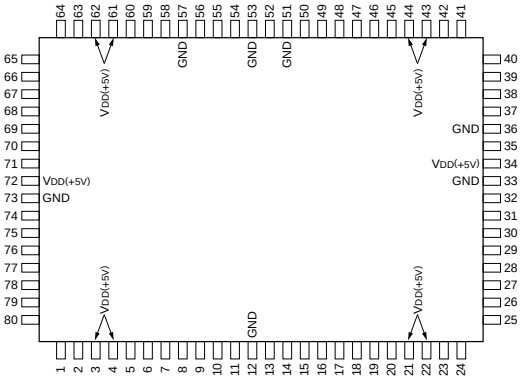
CF0 - 2 ; COLOR FRAME
CRCC ; CLASS 2-1CRCC+CF0/RF0DET
D0 - 9 ; INTERNAL DATA INFORMATION
FFW, TFW ; FLYWHEEL STATUS
FFWCONT ; FLY/DIRECT SYNCHRONIZE SELECT CONTROL
FMX ; F COUNTER PULSE STATE
FREERUN ; ERROR STATUS OF INX FOUR CONSECUTIVE TIMES
INDEXCOM ; COMPOSITE/COMPONENT SIGNAL
KAH ; ANALOG SYNCHRONIZE
KCK ; 13.5MHz CLOCK
KF ; KF
KHHD ; H SYNCHRONIZE
KVVD ; V SYNCHRONIZE
LSTD ; 525/625 DETECT
PERROR ; SELF-DIAGNOSIS DETECT
POUT ; SELF-DIAGNOSIS PARITY BETWEEN BOARD
SEPCK1 ; 6.75MHz CLOCK
TRSDET ; TRS DETECT
VD0 - 9 ; VIDEO DATA BUS
VDEOR ; VIDEO DATA EOR
XER ; TRS XY-BYTE HAMMING PROCESS



CXD8817Q (SONY)

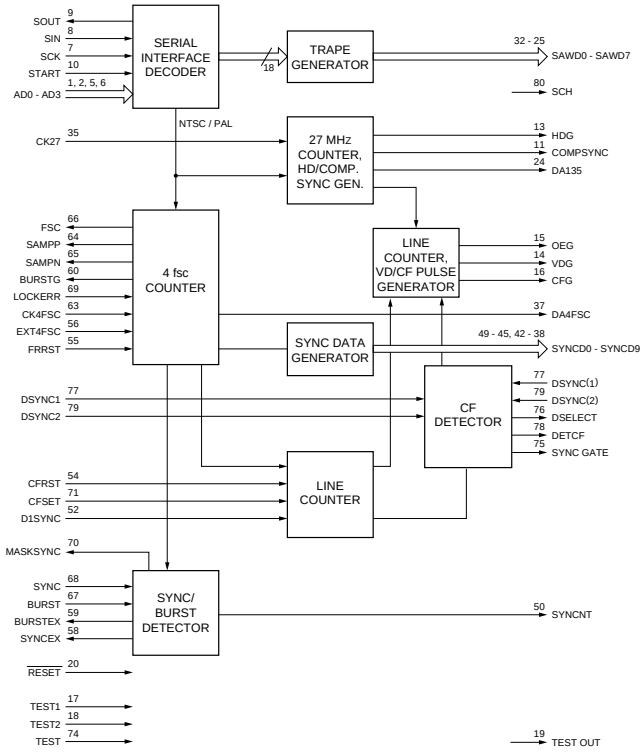
C-MOS VIDEO TIMING SIGNAL GENERATOR

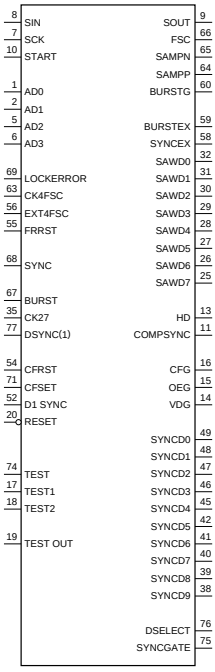
—TOP VIEW—



(VDD = +5V)

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	AD0	21	—	VDD	41	O	SYNCD6	61	—	VDD
2	I	AD1	22	—	VDD	42	O	SYNCD5	62	—	VDD
3	—	VDD	23	—	NC	43	—	VDD	63	I	CK4FSC
4	—	VDD	24	O	DA135	44	—	VDD	64	O	SAMPP
5	I	AD2	25	O	SAWD7	45	O	SYNCD4	65	O	SAMPN
6	I	AD3	26	O	SAWD6	46	O	SYNCD3	66	O	FSC
7	I	SCK	27	O	SAWD5	47	O	SYNCD2	67	I	BURST
8	I	SIN	28	O	SAWD4	48	O	SYNCD1	68	I	SYNC
9	O	SOUT	29	O	SAWD3	49	O	SYNCD0	69	I	LOCKERR
10	I	START	30	O	SAWD2	50	O	SYNCNT	70	O	MASKSYNC
11	O	COMPSYNC	31	O	SAWD1	51	—	GND	71	I	CFSET
12	—	GND	32	O	SAWD0	52	I	D1SYNC	72	—	VDD
13	O	HDG	33	—	GND	53	—	GND	73	—	GND
14	O	VDG	34	—	VDD	54	I	CFRST	74	I	TEST
15	O	OEG	35	I	CK27	55	I	FRRST	75	O	SYNCGATE
16	O	CFG	36	—	GND	56	I	EXT4FSC	76	O	DSELECT
17	I	TEST1	37	O	DA4FSC	57	—	GND	77	I	DSYNC1
18	I	TEST2	38	O	SYNCD9	58	O	SYNCEX	78	O	DETCF
19	O	TESTOUT	39	O	SYNCD8	59	O	BURSTEX	79	I	DSYNC2
20	I	RESET	40	O	SYNCD7	60	O	BURSTG	80	O	SCH





INPUT

AD0 - AD3	;	SERIAL PRESET ADDRESS
BURST	;	REFERENCE BURST INPUT
CFRST	;	CF RESET FOR D2 LOCK
CFSET	;	EXTERNAL CF PULSE INPUT
CK27	;	27 MHz CLOCK
CK4FSC	;	4fsc CLOCK
D1SYNC	;	D1 SYNC FOR D1 LOCK
DSYNC1	;	DELAYED SYNC FOR CF DET
DSYNC2	;	DELAYED SYNC FOR SCH DET
EXT4FSC	;	EXTERNAL 4fsc CLOCK
FRRST	;	FRAME RESET FOR D2 LOCK
LOCKERR	;	4fsc PLL LOCK ERROR
RESET	;	POWER ON RESET
SCK	;	SERIAL CLOCK
SIN	;	SERIAL DATA INPUT
START	;	SERIAL START PULSE
SYNC	;	REFERENCE SYNC INPUT
TEST	;	TEST PIN
TEST1, 2	;	TEST PINS

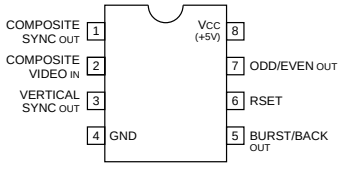
OUTPUT

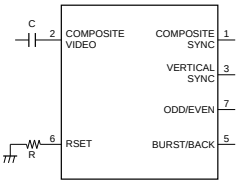
BURSTEX	;	BURST EXIST : H
BURSTG	;	BURST SAMPLE PULSE FOR NTSC
CFG	;	COLOR FRAMING PULSE
COMPSYNC	;	COMPOSITE SYNC
DA135	;	13.5 MHz CLOCK
DA4FSC	;	4fsc CLOCK
DETCF	;	DETECTED COLOR FRAMING
DSELECT	;	HYSTERESIS CONTROL FOR CF DET
FSC	;	FSC CLOCK
HDG	;	HD PULSE
MASKSYNC	;	GATED SYNC
OEG	;	ODD / EVEN PULSE
SAMPN	;	BURST SAMPLE (–) FOR PAL
SAMPP	;	BURST SAMPLE (+) FOR PAL
SAWD0 - SAWD7	;	27 MHz SAW-TOOTH DATA (0 - 7)
SCH	;	DETECTED SCH
SOUT	;	SERIAL DATA OUTPUT
SYNCD0 - SYNCD9	;	4fsc SYNC DATA (0 - 9)
SYNCEX	;	SYNC EXIST : H
SYNCGATE	;	SELECTED SYNC FOR CF DET
SYNCNT	;	4fsc SYNC FOR NTSC
TESTOUT	;	TEST PIN
VDG	;	VD PULSE

EL4581CS-TE2 (ELT)FLAT PACKAGE

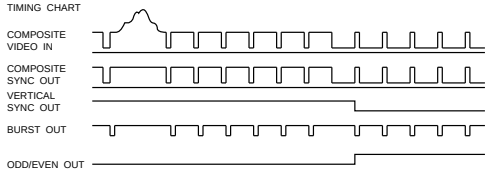
VIDEO SYNC SEPARATOR

—TOP VIEW—



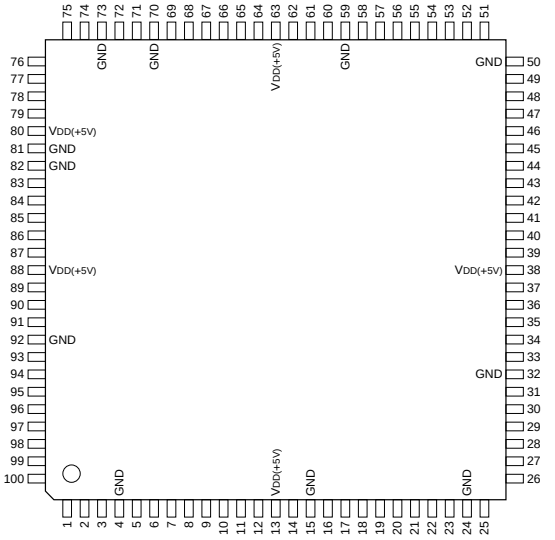


TIMING CHART

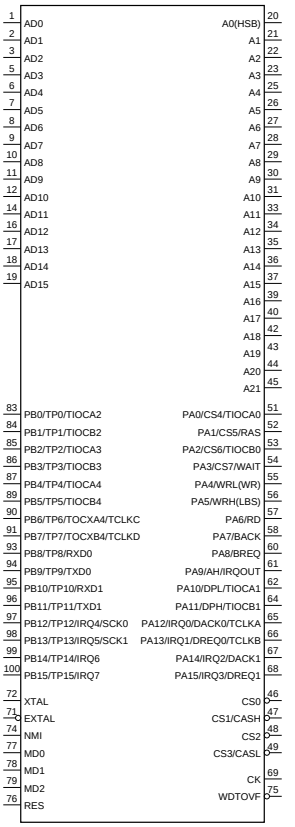


HD6437021C02X (HITACHI)

C-MOS 32-BIT MICROPROCESSOR
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I/O	AD0	35	O	A13	69	O	CK
2	I/O	AD1	36	O	A14	70	—	GND
3	I/O	AD2	37	O	A15	71	I	EXTAL
4	—	GND	38	—	VDD	72	I	XTAL
5	I/O	AD3	39	O	A16	73	—	GND
6	I/O	AD4	40	O	A17	74	I	NMI
7	I/O	AD5	41	—	GND	75	O	$\overline{\text{WDTOVF}}$
8	I/O	AD6	42	O	A18	76	I	$\overline{\text{RES}}$
9	I/O	AD7	43	O	A19	77	I	MD0
10	I/O	AD8	44	O	A20	78	I	MD1
11	I/O	AD9	45	O	A21	79	I	MD2
12	I/O	AD10	46	O	$\overline{\text{CS0}}$	80	—	VDD
13	—	VDD	47	O	$\overline{\text{CS1/CASH}}$	81	—	GND
14	I/O	AD11	48	O	$\overline{\text{CS2}}$	82	—	GND
15	—	GND	49	O	$\overline{\text{CS3/CASL}}$	83	I/O	PB0/TP0/TIOCA2
16	I/O	AD12	50	—	GND	84	I/O	PB1/TP1/TIOCB2
17	I/O	AD13	51	I/O	PA0/$\overline{\text{CS4}}$/TIOCA0	85	I/O	PB2/TP2/TIOCA3
18	I/O	AD14	52	I/O	PA1/$\overline{\text{CS5}}$/$\overline{\text{RAS}}$	86	I/O	PB3/TP3/TIOCB3
19	I/O	AD15	53	I/O	PA2/$\overline{\text{CS6}}$/TIOCB0	87	I/O	PB4/TP4/TIOCA4
20	O	A0 ($\overline{\text{HBS}}$)	54	I/O	PA3/$\overline{\text{CS7}}$/$\overline{\text{WAIT}}$	88	—	VDD
21	O	A1	55	I/O	PA4/$\overline{\text{WRL}}$/($\overline{\text{WR}}$)	89	I/O	PB5/TP5/TIOCB4
22	O	A2	56	I/O	PA5/$\overline{\text{WRH}}$/($\overline{\text{LBS}}$)	90	I/O	PB6/TP6/TOCXA4/TCLKC
23	O	A3	57	I/O	PA6/$\overline{\text{RD}}$	91	I/O	PB7/TP7/TOCXB4/TCLKD
24	—	GND	58	I/O	PA7/$\overline{\text{BACK}}$	92	—	GND
25	O	A4	59	—	GND	93	I/O	PB8/TP8/RXD0
26	O	A5	60	I/O	PA8/BREQ	94	I/O	PB9/TP9/TXD0
27	O	A6	61	I/O	PA9/AH/$\overline{\text{IRQOUT}}$	95	I/O	PB10/TP10/RXD1
28	O	A7	62	I/O	PA10/DPL/TIOCA1	96	I/O	PB11/TP11/TXD1
29	O	A8	63	—	VDD	97	I/O	PB12/TP12/$\overline{\text{IRQ4}}$/SCK0
30	O	A9	64	I/O	PA11/DPH/TIOCB1	98	I/O	PB13/TP13/$\overline{\text{IRQ5}}$/SCK1
31	O	A10	65	I/O	PA12/$\overline{\text{IRQ0}}$/DACK0/TCLKA	99	I/O	PB14/TP14/$\overline{\text{IRQ6}}$
32	—	GND	66	I/O	PA13/$\overline{\text{IRQ1}}$/$\overline{\text{DREQ0}}$/TCLKB	100	I/O	PB15/TP15/$\overline{\text{IRQ7}}$
33	O	A11	67	I/O	PA14/$\overline{\text{IRQ2}}$/DACK1			
34	O	A12	68	I/O	PA15/$\overline{\text{IRQ3}}$/DREQ1			



INPUT

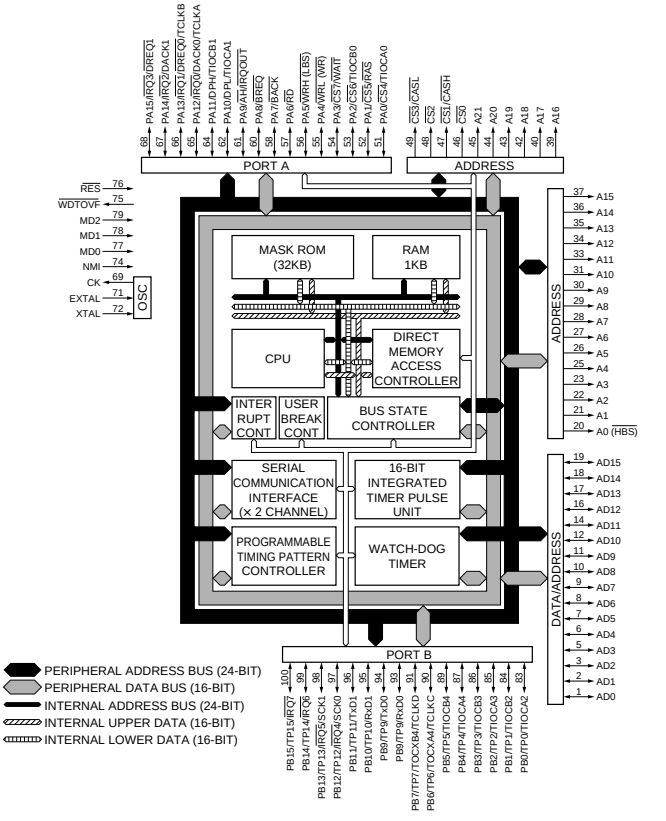
BREQ	;	BUS REQUEST
DREQ0, DREQ1	;	DMA REQUEST
EXTAL	;	CRYSTAL OSCILLATOR AND EXTERNAL CLOCK
IRQ0 - IRQ7	;	INTERRUPT REQUEST
MD0 - MD2	;	MODE SELECT
NMI	;	NON-MASKABLE INTERRUPT
RES	;	RESET
RXD0, RXD1	;	RECEIVE DATA
TCLKA - TCLKD	;	TIMER CLOCK
WAIT	;	WAIT
XTAL	;	EXTERNAL CRYSTAL OSCILLATOR

OUTPUT

AH	;	ADDRESS HOLD
A0 - A21	;	ADDRESS BUS
BACK	;	BUS REQUEST ACKNOWLEDGE
CASH	;	HIGH COLUMN ADDRESS STROBE
CASL	;	LOW COLUMN ADDRESS STROBE
CK	;	SYSTEM CLOCK
CS0 - CS7	;	CHIP SELECT
DACK0, DACK1	;	DMA REQUEST ACKNOWLEDGE
HBS	;	HIGH BYTE STROBE
LBS	;	LOW BYTE STROBE
RAS	;	ROW ADDRESS STROBE
RD	;	READ
RQOUT	;	REQUEST OUTPUT
TOCXA4	;	OUTPUT COMPARE XA4
TOCXB4	;	OUTPUT COMPARE XB4
TP0 - TP15	;	TIMING PATTERN CONTROLLER
TXD0, TXD1	;	TRANSMIT DATA
WDTOVF	;	WATCH-DOG TIMER OVERFLOW
WR	;	WRITE
WRH	;	HIGH WRITE
WRL	;	LOW WRITE

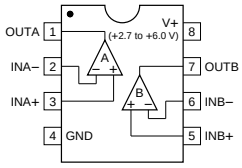
INPUT/OUTPUT

AD0 - AD15	;	DATA/ADDRESS BUS
DPH	;	HIGH DATA PARITY
DPL	;	LOW DATA PARITY
PA0 - PA15	;	I/O PORT A
PB0 - PB15	;	I/O PORT B
SCK0, SCK1	;	SERIAL CLOCK
TIOCA0 - TIOCA4	;	ITU INPUT CAPTURE/OUTPUT COMPARE
TIOB0 - TIOCB4	;	ITU INPUT CAPTURE/OUTPUT COMPARE



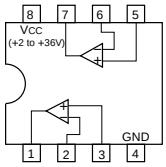
MAX942CSA (MAXIM)FLAT PACKAGE

C-MOS 3 V/5 V RAIL TO RAIL SINGLE SUPPLY COMPARATORS
—TOP VIEW—



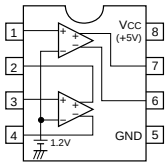
NJM2903V(TE2) (FSC)

DUAL VOLTAGE COMPARATORS
—TOP VIEW—



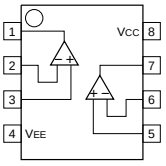
MB3761PF (FUJITSU)FLAT PACKAGE
MB3761PF-T2

VOLTAGE DETECTOR
—TOP VIEW—



NJM2904V(TE2) (JRC)FLAT PACKAGE(SMALL)

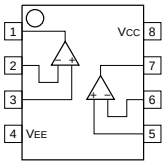
DUAL OPERATIONAL AMPLIFIERS
(SINGLE-SUPPLY TYPE)
—TOP VIEW—



TYPE	VCC - VEE
828 TYPE	+5 to +36V
2244 TYPE	+2.5 to +36V
2904 TYPE	+3 to +24V
3404 TYPE	+4 to +32V
3414 TYPE	+3 to +10V
4572 TYPE	+4 to +14V
5216 TYPE	+4 to +32V
7022 TYPE	+3 to +16V
7062 TYPE	+3 to +16V
75W01 TYPE	+3 to +10V
33172 TYPE	+3 to +44V
OTHERS	+3 to +36V

NJM2041M-D (JRC)FLAT PACKAGE
NJM2041M-D(TE2)
NJM5532M (JRC)FLAT PACKAGE
NJM5532M(TE2)
TL062CPW (TI)FLAT PACKAGE
TL062CPW-E05

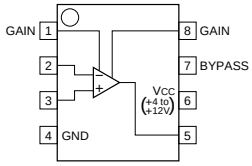
DUAL OPERATIONAL AMPLIFIERS
(DUAL-SUPPLY TYPE)
—TOP VIEW—



TYPE	VCC	VEE
062/072/082/4556A/ M5218/BA15218/ 33178/34182 TYPES	+2 to +16V	−2 to −16V
4580 TYPE	+2 to +18V	−2 to −18V
5532 TYPE	+3 to +20V	−3 to −20V
CXA1297 TYPE	+5 to +12V	−5 to −12V
M5219/M5220 TYPES	+5 to +22.5V	−5 to −22.5V
MC33077DR2	+2.5 to +18V	−2.5 to −18V
NJM2100 TYPE	+1 to +3.5V	−1 to −3.5V
OP-297 TYPE	+2 to +20V	−2 to −20V
OTHERS	+5 to +16V	−5 to −16V

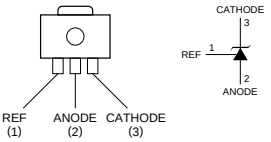
NJM386M (JRC)FLAT PACKAGE
NJM386M-T2

AUDIO POWER AMPLIFIER
—TOP VIEW—



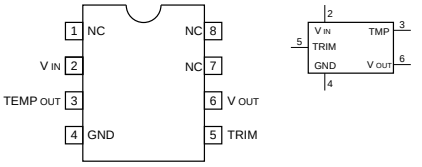
NJM431U (JRC)
NJM431U-TE1

ADJUSTABLE PRECISION SHUNT REGULATOR
—FRONT VIEW—



REF-03GSR (PMI)FLAT PACKAGE

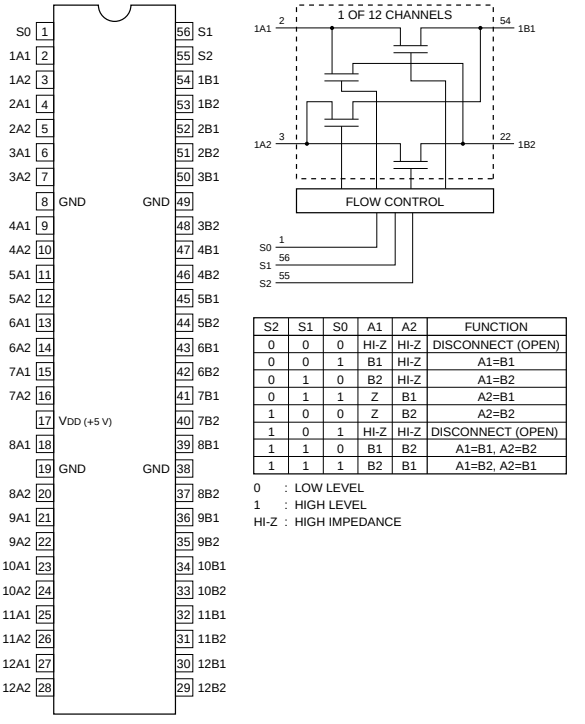
REFERENCE/TEMPERATURE TRANSDUCER
—TOP VIEW—



V IN ; INPUT VOLTAGE (+4.5V to +33V)
TEMP OUT ; TEMPERATURE TRANSDUCER VOLTAGE OUTPUT
TRIM IN ; OUTPUT SIGNAL TRIMMING
V OUT ; OUTPUT VOLTAGE (+2.5V)

SN74CBT16212DGGR (TI)FLAT PACKAGE

C-MOS 24-BIT BUS-EXCHANGE SWITCH
—TOP VIEW—

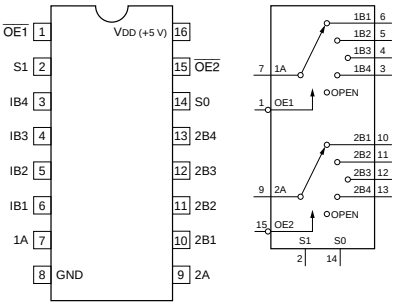


S2	S1	S0	A1	A2	FUNCTION
0	0	0	HI-Z	HI-Z	DISCONNECT (OPEN)
0	0	1	B1	HI-Z	A1=B1
0	1	0	B2	HI-Z	A1=B2
0	1	1	Z	B1	A2=B1
1	0	0	Z	B2	A2=B2
1	0	1	HI-Z	HI-Z	DISCONNECT (OPEN)
1	1	0	B1	B2	A1=B1, A2=B2
1	1	1	B2	B1	A1=B2, A2=B1

0 : LOW LEVEL
1 : HIGH LEVEL
HI-Z : HIGH IMPEDANCE

SN74CBT3253PW-E20 (TI)FLAT PACKAGE

C-MOS DUAL 4-BIT TO 1-BIT MULTIPLEXER
—TOP VIEW—

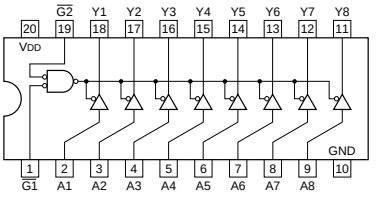


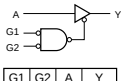
S1	S0	$\overline{OE1}$	$\overline{OE2}$	FUNCTION
0	0	0	0	1A TO 1B1 AND 2A TO 2B1
0	1	0	0	1A TO 1B2 AND 2A TO 2B2
1	0	0	0	1A TO 1B3 AND 2A TO 2B3
1	1	0	0	1A TO 1B4 AND 2A TO 2B4
×	×	×	1	DISCONNECT (OPEN) 1A
×	×	1	×	DISCONNECT (OPEN) 2A

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

SN74HCT541APW-E05 (TI)FLAT PACKAGE
TC74VHC541FS(EL) (TOSHIBA)FLAT PACKAGE
TC74VHCT541AFT(EL) (TOSHIBA)FLAT PACKAGE

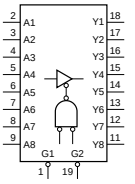
C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS
—TOP VIEW—





G1	G2	A	Y
0	0	0	0
0	0	1	1
1	×	×	HI-Z
×	1	×	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

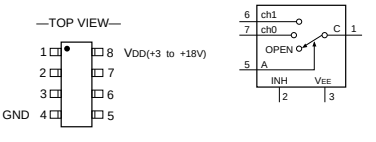


NOTE :

TYPE	VDD
TC74AC/TC74VHC	+2 to +5.5V
ABT/ACT/BCT/HCT/VHCT	+5V
74LCX	+2 to +3.6V
OTHER TYPES	+2 to +6V

TC4W53FU (TOSHIBA)CHIP PACKAGE
TC4W53FU(TE12R)

C-MOS 2-CHANNEL MULTIPLEXER / DEMULTIPLEXER



CONT.INPUT		ON CHANNEL
INH	A	
0	0	ch0
0	1	ch1
1	×	OPEN

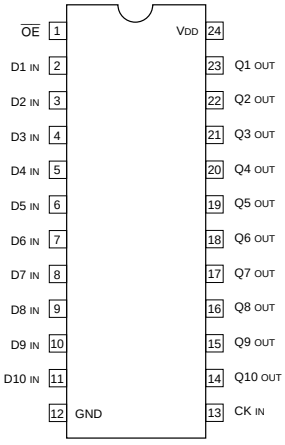
0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE

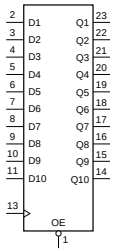
http://getMANUAL.com

SN74LVC821APW-E05 (TI)FLAT PACKAGE

C-MOS 10-BIT BUS INTERFACE FLIP-FLOPS WITH 3-STATE OUTPUTS

—TOP VIEW—





FUNCTION TABLE (EACH FLIP-FLOP)

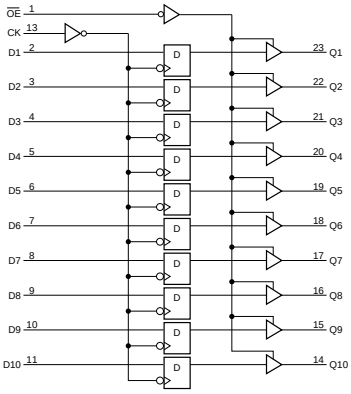
INPUTS			OUTPUTS
OE	CK	D	Q
0	↑	1	1
0	↑	0	0
0	0	×	Q0
1	×	×	HI-Z

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE
HI-Z : HIGH IMPEDANCE

NOTE:

TYPE	VDD
74LVC	+2 to +3.6 V
OTHER TYPES	+5 V

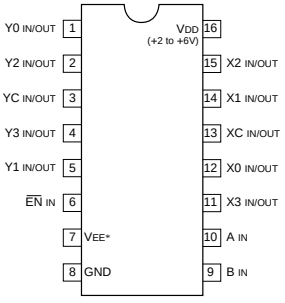
LOGIC DIAGRAM (POSITIVE LOGIC)

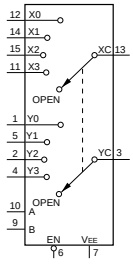


TC74HC4052AFS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS DUAL 4-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER

—TOP VIEW—





VEE* ; VDD - VEE = +3 to +12V

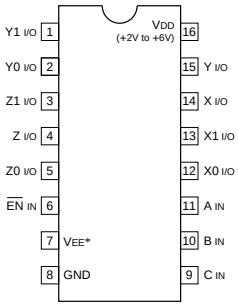
CONTROL INPUTS			"ON" CHANNEL
EN	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	×	×	OPEN

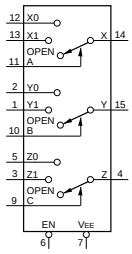
0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE

TC74HC4053AFS (TOSHIBA)FLAT PACKAGE
TC74HC4053AFS-EL

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER

—TOP VIEW—





VEE*; VDD – VEE = +3V to +12V
VEE ≦ GND

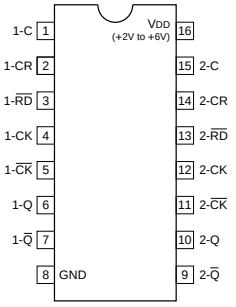
CONTROL INPUTS				ON CHANNEL		
EN	SELECT					
	C	B	A			
0	0	0	0	Z0	Y0	X0
0	0	0	1	Z0	Y0	X1
0	0	1	0	Z0	Y1	X0
0	0	1	1	Z0	Y1	X1
0	1	0	0	Z1	Y0	X0
0	1	0	1	Z1	Y0	X1
0	1	1	0	Z1	Y1	X0
0	1	1	1	Z1	Y1	X1
1	×	×	×	OPEN		

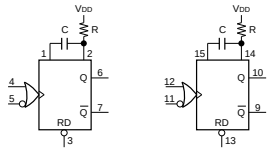
0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE

TC74HC4538AFS-EL (TOSHIBA)FLAT PACKAGE

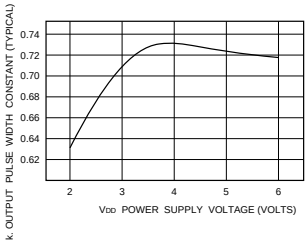
C-MOS DUAL RETRIGGERABLE / NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR

—TOP VIEW—

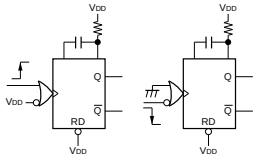




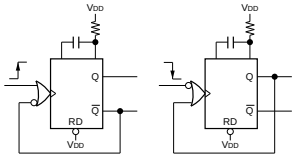
OUTPUT PULSE WIDTH = k · C · R



RETRIGGERABLE M. M. V



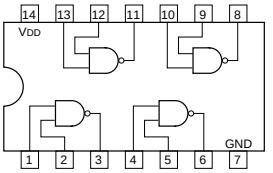
NON-RETRIGGERABLE M. M. V

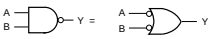


TC74VHC00FS(EL) (TOSHIBA)FLAT PACKAGE(SMALL)

C-MOS QUAD 2-INPUT NAND GATES

—TOP VIEW—





$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

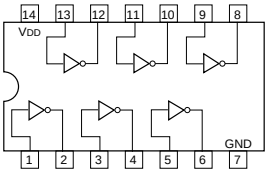
NOTE:

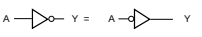
TYPE	VDD
74AC/74VHC	+2 to +5.5V
74ACT/74HCT/74VHCT	+4.5 to +5.5V
LCX	+2 to +3.6V
OTHER TYPES	+2 to +6V

TC74VHC04F (TOSHIBA)FLAT PACKAGE
TC74VHC04FS(EL)
TC74VHCU04FS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS HEX INVERTERS

—TOP VIEW—





$Y = \overline{A}$

A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

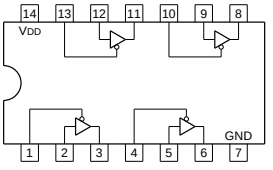
NOTE:

TYPE	VDD
74AC/74VHC/74VHCT	+2 to +5.5V
74ACT/74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPE	+2 to +6V

TC74VHC125FS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS BUS BUFFER GATES WITH 3-STATE OUTPUT

—TOP VIEW—



G	A	Y
0	0	0
0	1	1
1	×	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

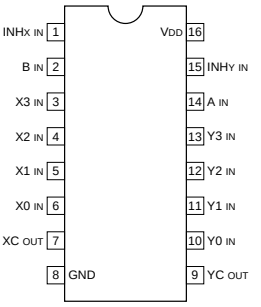
NOTE :

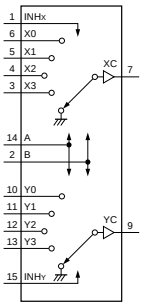
TYPE	VDD
74AC/74VHC	+2 to +5.5V
74ACT/74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
74LVT/74LVC	+2.7 to +3.6V
OTHER TYPES	+2 to +6V

TC74VHC153FS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS DUAL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER

—TOP VIEW—





NOTE:

TYPE	VDD
ACT/HCT/FCT	+5V
40H	+2 to +8V
TC74AC/TC74VHC	+2 to +5.5V
OTHER TYPES	+2 to +6V

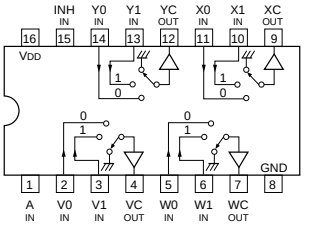
CONTROL IN			ON
INH	B	A	CHANNEL
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	×	×	GND

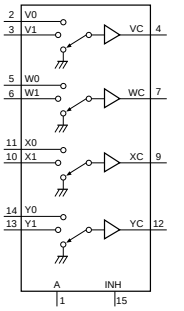
0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

TC74VHC157FS(EL) (TOSHIBA)

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER

—TOP VIEW—





NOTE:

TYPE	VDD
74ACT/74FCT	+5 V
TC74AC157P TC74AC157	+2 to +5.5 V
TC40H	+2 to +8 V
OTHER TYPES	+2 to +6 V

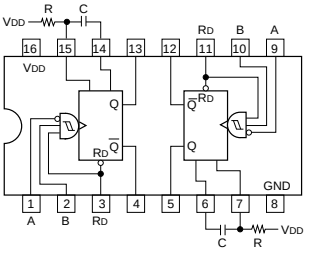
CONT.IN		ON
INH	A	CHANNEL
0	0	0
0	1	1
1	×	GND

0 : LOW LEVEL
1 : HIGH LEVEL
× : DON'T CARE

TC74VHC221AFS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT

—TOP VIEW—



INPUTS			OUTPUTS	
RD	A	B	Q	$\overline{Q}$
0	×	×	0	1
×	1	×	0	1
×	×	0	0	1
1	0	↑	⊓	⊔
1	↓	1	⊓	⊔
↑	0	1	⊓	⊔

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE

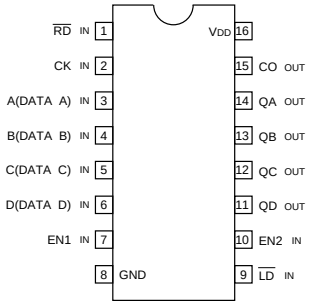
OUTPUT PULSE WIDTH = 0.7CR

NOTE:

TYPE	VDD
74AC/74VHC	+2 to +5.5V
74HCT	+4.5 to +5.5V
74HC	+2 to +6V

TC74VHC163F (TOSHIBA)FLAT PACKAGE
TC74VHC163FS(EL)

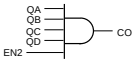
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
—TOP VIEW—



MODE SELECTION

CONTROL INPUTS				MODE
RD	LD	EN1	EN2	
0	×	×	×	RESET (SYNCHRONOUS)
1	0	×	×	PRESET (SYNCHRONOUS)
1	1	0	×	NO COUNT
1	1	×	0	NO COUNT
1	1	1	1	COUNT

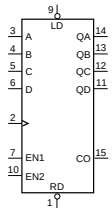
CARRY OUTPUT "CO"



CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

NOTE:

TYPE	VDD
HC	+2 to +6V
AC/VHC	+2 to +5.5V
HCT/ACT/FCT	+5V

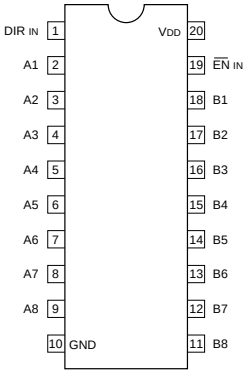


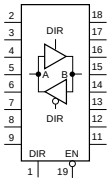
COUNT SEQUENCE

COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

TC74VHC245FS(EL) (TOSHIBA)FLAT PACKAGE(SMALL)

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS
—TOP VIEW—



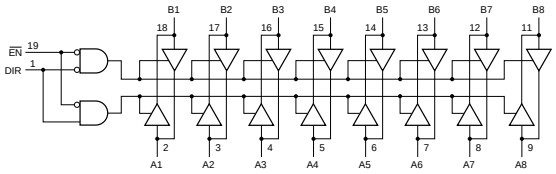


EN	DIR	OPERATION
0	0	B to A
0	1	A to B
1	×	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

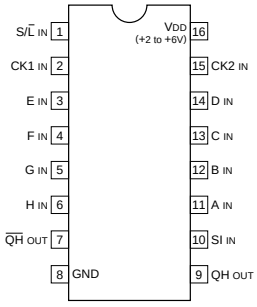
NOTE:

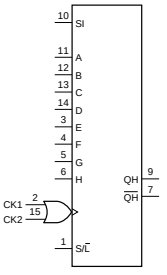
TYPE	VDD
74HC	+2 to +6V
74ABT 74ACT 74BCT 74HCT	+4.5 to +5.5V
74AC 74VHC	+2 to +5.5V
74LCX	+2 to +3.6V
74LVT	+2.7 to +3.6V



TC74VHC165FS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS SERIAL-OR PARALLEL-INPUT SHIFT REGISTER
—TOP VIEW—

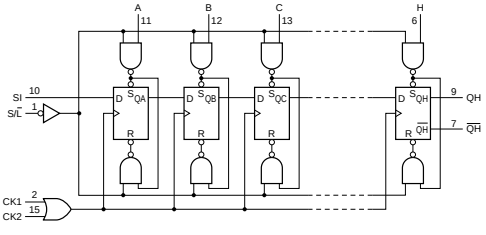




SI ; SERIAL DATA IN
A-H ; PARALLEL DATA IN
CK1, CK2 ; CLOCK IN (⎍)
S/L ; SHIFT/LOAD IN
QH QH ; 8th BIT OUT (COMPLEMENTALY)

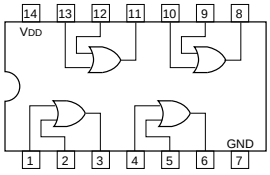
INPUTS				CONTENTS		OUTPUT	OPERATION
S/L	CK1+CK2	SI	A---------H	QA	QB-----	QH	
0	×	×	a---------h	a	b-----	h	PARALLEL LOAD
1	⎍	0	×	0	QAo---	QGo	RIGHT SHIFT
1	⎍	1	×	1	QAo---	QGo	
1	⎍	×	×	QAo	QBo---	QHo	NO COUNT
1	0	×	×	QAo	QBo---	QHo	
1	1	×	×	QAo	QBo---	QHo	

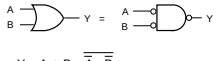
0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE
a-h ; LEVEL OF INPUTS A-H
QAo - QHo ; LEVEL OF QA-QH BEFORE THE INDICATED INPUT CONDITIONS WERE ESTABLISHED



TC74VHC32FS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS QUAD 2-INPUT OR GATES
—TOP VIEW—





$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

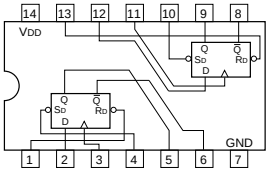
0 : LOW LEVEL
1 : HIGH LEVEL

NOTE:

TYPE	VDD
74AC/74VHC	+2 to +5.5 V
74HC	+2 to +6 V
74ACT/74HCT	+4.5 to +5.5 V

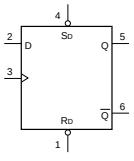
TC74VHC74FS(EL) (TOSHIBA)FLAT PACKAGE

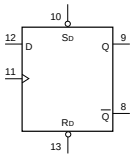
C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET
—TOP VIEW—



INPUTS				OUTPUTS	
$\overline{S_D}$	$\overline{R_D}$	CK	D	Qn+1	$\overline{Qn+1}$
0	1	×	×	1	0
1	0	×	×	0	1
0	0	×	×	1	1
1	1	⎍	1	1	0
1	1	⎍	0	0	1
1	1	0	×	Qn	$\overline{Qn}$

0 ; LOW LEVEL
1 ; HIGH LEVEL
× ; DON'T CARE



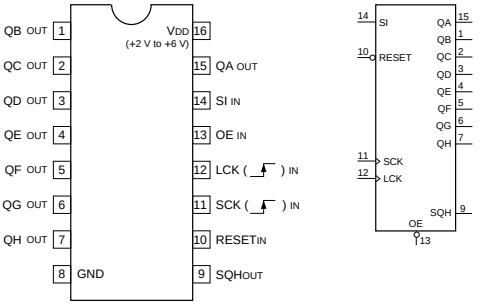


NOTE:

TYPE	VDD
74HCT/74ACT	+4.5 to +5.5V
74LVC	+2.7 to +3.6V
74AC/74VHC	+2 to +5.5V
OTHERS	+2 to +6V

TC74VHC595FS(EL) (TOSHIBA)FLAT PACKAGE

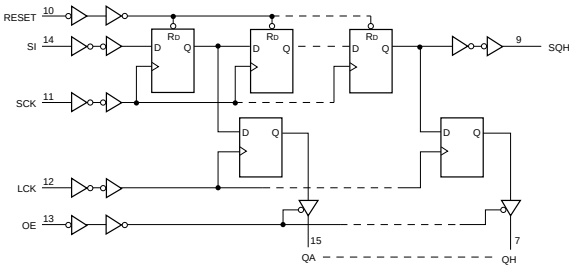
C-MOS 8-BIT SERIAL-INPUT/SERIAL- OR PARALLEL-OUTPUT
SHIFT REGISTER WITH LATCHED 3-STATE OUTPUT
—TOP VIEW—



NOTE :

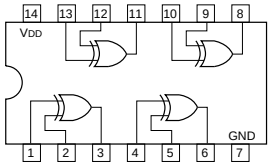
TYPE	VDD
TC74AC/TC74VHC	+2 to +5.5 V
HCT/ACT	+5 V
OTHER TYPES	+2 to +6 V

OE : OUTPUT ENABLE INPUT
LCK : LATCH CLOCK INPUT
SCK : SHIFT CLOCK INPUT
RESET : SHIFT-REGISTER RESET INPUT
SI : SERIAL N
QA - QH : PARALLEL OUTPUT
SQH : SERIAL OUT



TC74VHC86FS(EL) (TOSHIBA)FLAT PACKAGE

C-MOS QUAD EXCLUSIVE OR GATES
—TOP VIEW—



$Y = \overline{A} \cdot B + A \cdot \overline{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

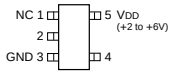
0 ; LOW LEVEL
1 ; HIGH LEVEL

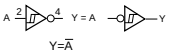
NOTE :

TYPE	VDD
74AC/74VHC	+2 to +5.5V
74ACT/74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPES	+2 to +6V

TC7S14FU(TE85R) (TOSHIBA)CHIP PACKAGE

C-MOS SCHMITT INVERTER
—TOP VIEW—





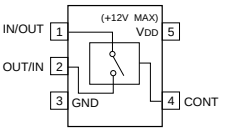
$Y = \overline{A}$

A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

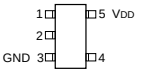
TC7S66F (TOSHIBA)
TC7S66F(TE85R)

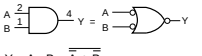
C-MOS ANALOG SWITCH
—TOP VIEW—



TC7SET08FU(TE85R)
TC7SET08FU-TE85R (TOSHIBA)FLAT PACKAGE
TC7SH08FU-TE85R (TOSHIBA)CHIP PACKAGE

C-MOS 2-INPUT AND GATE
—TOP VIEW—





$Y = A \cdot B = \overline{\overline{A} + \overline{B}}$

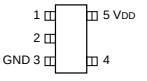
A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

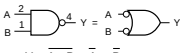
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
7S08F 7S08FU	+2 to +6V
4S81F 14S81F	+3 to +18V
7SH08FU 7SH08F	+2 to +5.5V

TC7SH00FU-TE85R (TOSHIBA)FLAT PACKAGE

C-MOS 2-INPUT NAND GATE
—TOP VIEW—





$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

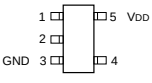
0 ; LOW LEVEL
1 ; HIGH LEVEL

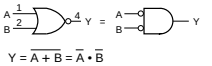
TYPE	VDD
7S00F 7S00FU	+2 to +6V
4S11F 4SU11F	+3 to +18V
7SH00FU	+2 to +5.5V

TC7SH02FU (TOSHIBA)CHIP PACKAGE
TC7SH02FU-TE85R

C-MOS 2-INPUT NOR GATE

—TOP VIEW—





$Y = \overline{A + B} = \overline{A} \cdot \overline{B}$

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

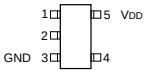
0 ; LOW LEVEL
1 ; HIGH LEVEL

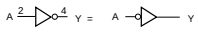
TYPE	VDD
4S01F	+3 to +18V
7S02F 7S02FU 7SH02FU	+2 to +6V

TC7SH04FU (TOSHIBA)CHIP PACKAGE
TC7SH04FU-TE85R

C-MOS INVERTER

—TOP VIEW—





$Y = \overline{A}$

A	Y
0	1
1	0

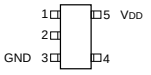
0 ; LOW LEVEL
1 ; HIGH LEVEL

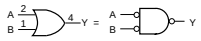
TYPE	VDD
7S04F 7SU04F 7SU04FU	+2 to +6V
4S69F 4SU69F	+3 to +18V
7SH04FU 7SHU04FU	+2 to +5.5V

TC7SH32FU-TE85R (TOSHIBA)FLAT PACKAGE

C-MOS 2-INPUT OR GATE

—TOP VIEW—





$Y = A + B = \overline{\overline{A} \cdot \overline{B}}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

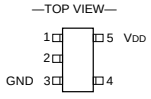
0 : LOW LEVEL
1 : HIGH LEVEL

TYPE	VDD
7S32F 7S32FU	+2 to +6 V
4S71F	+3 to +18 V
7SH32FU	+2 to +5.5 V
7ST32FU	+5 V

TC7SH86FU-TE85R (TOSHIBA)FLAT PACKAGE

C-MOS 2-INPUT EXCLUSIVE OR GATE

—TOP VIEW—



$Y = \overline{A} \cdot B + A \cdot \overline{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

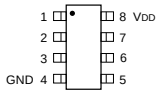
0 ; LOW LEVEL
1 ; HIGH LEVEL

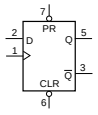
TYPE	VDD
7S86FU 7S86F	+2 to +6V
4S30F	+3 to +18V
7SH86FU	+2 to +5.5V

TC7WH74FU(TR12R) (TOSHIBA)CHIP PACKAGE

C-MOS D-TYPE FLIP-FLOPS WITH PRESET AND CLEAR

—TOP VIEW—





TYPE	VDD
7W74F 7W74FU	+2 to +6V
7WH74FU	+2 to +5.5V

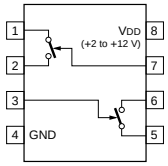
INPUTS				OUTPUTS		FUNCTION
$\overline{CLR}$	$\overline{PR}$	CK	D	Qn+1	$\overline{Qn+1}$	
0	1	X	X	0	1	CLEAR
1	0	X	X	1	0	PRESET
0	0	X	X	1	1	–
1	1	↓	0	0	1	–
1	1	↓	1	1	0	–
1	1	↑	X	Qn	$\overline{Qn}$	NO CHANGE

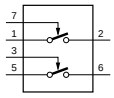
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC7W66FU(TE12R) (TOSHIBA)FLAT PACKAGE

C-MOS DUAL BILATERAL SWITCH

—TOP VIEW—

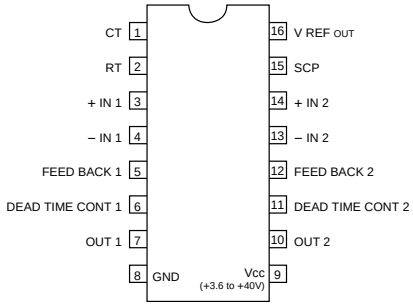


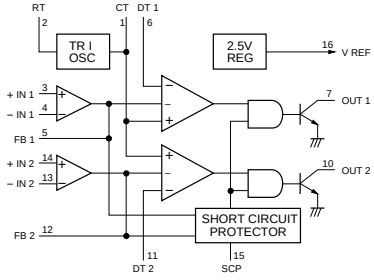


TL1451ACPW-E05 (TI)

DUAL PWM POWER CONTROLLER

—TOP VIEW—

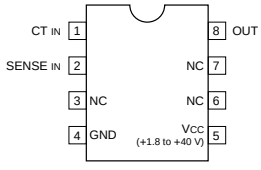


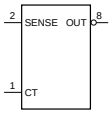


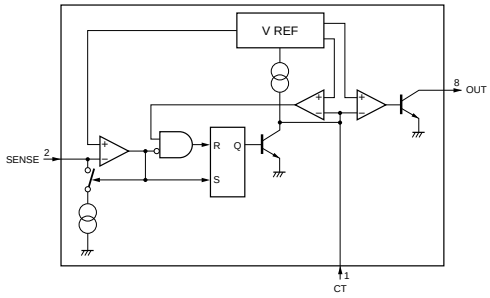
TL7700CPS (TI)FLAT PACKAGE
TL7700CPS-E05

VARIABLE SUPPLY VOLTAGE SUPERVISOR

—TOP VIEW—

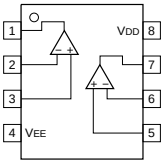






TLC2262CPW-E05 (TI)FLAT PACKAGE
TLC2272CPW-E05 (TI)FLAT PACKAGE

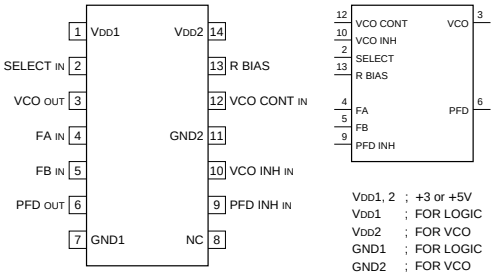
C-MOS DUAL OPERATIONAL AMPLIFIERS
(DUAL-SUPPLY TYPE)
—TOP VIEW—



TYPE	VDD	VEE
ICL7621	+1 to +8 V	−1 to −8 V
TLC2262 TLC2272	+2.2 to +8 V	−2.2 to −8 V

TLC2932IPW (TI)
TLC2932IPW-E05

C-MOS VCO AND PHASE FREQUENCY DETECTOR
—TOP VIEW—

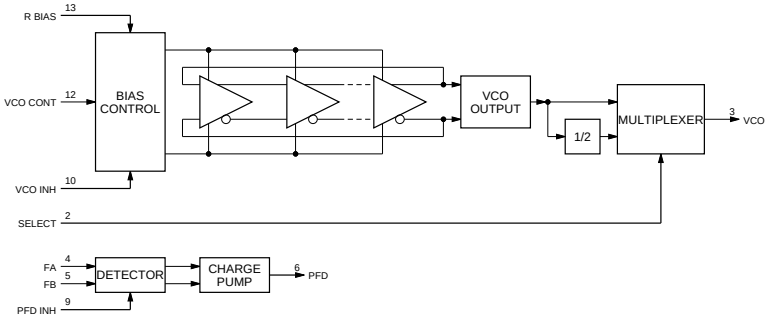


VDD1, 2 ; +3 or +5V
VDD1 ; FOR LOGIC
VDD2 ; FOR VCO
GND1 ; FOR LOGIC
GND2 ; FOR VCO

INPUT
FA ; REFERENCE FREQUENCY
FB ; INPUT FREQUENCY FROM OUTSIDE COUNTER
PFD INH ; PFD INHIBIT
SELECT ; VCO OUTPUT FREQUENCY SELECT
VCO CONT ; VCO CONTROL VOLTAGE
VCO INH ; VCO INHIBIT

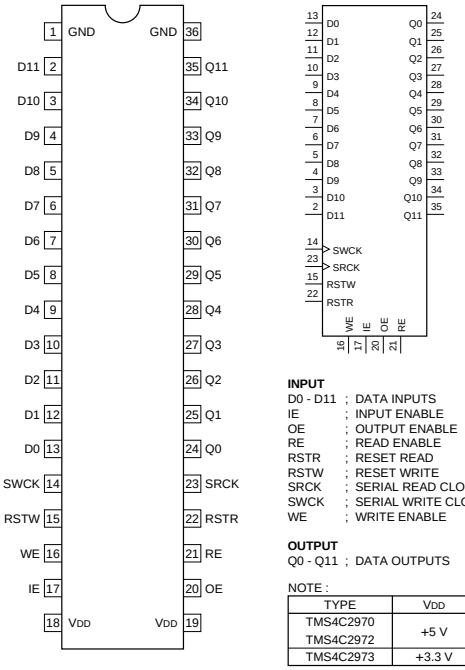
OUTPUT
PFD ; PHASE FREQUENCY DETECTOR
VCO ; VOLTAGE CONTROLLED OSCILLATOR

OTHER
R BIAS ; BIAS RESISTOR FOR VCO OSCILLATION FREQUENCY SETTING



TMS4C2973-26DTR (TI)FLAT PACKAGE

C-MOS 2.9 M (245,760-WORD × 12) BITS FIELD MEMORY
—TOP VIEW—

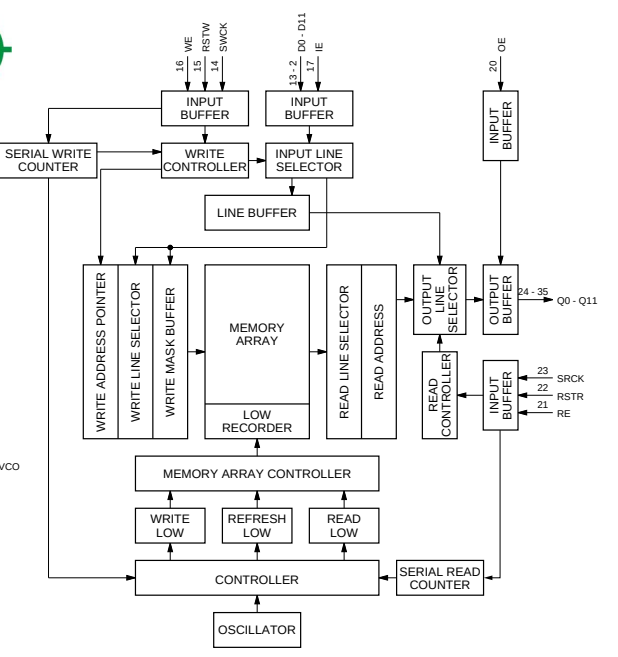


INPUT
D0 - D11 ; DATA INPUTS
IE ; INPUT ENABLE
OE ; OUTPUT ENABLE
RE ; READ ENABLE
RSTR ; RESET READ
RSTW ; RESET WRITE
SRCK ; SERIAL READ CLOCK
SWCK ; SERIAL WRITE CLOCK
WE ; WRITE ENABLE

OUTPUT
Q0 - Q11 ; DATA OUTPUTS

NOTE :

TYPE	VDD
TMS4C2970 TMS4C2972	+5 V
TMS4C2973	+3.3 V

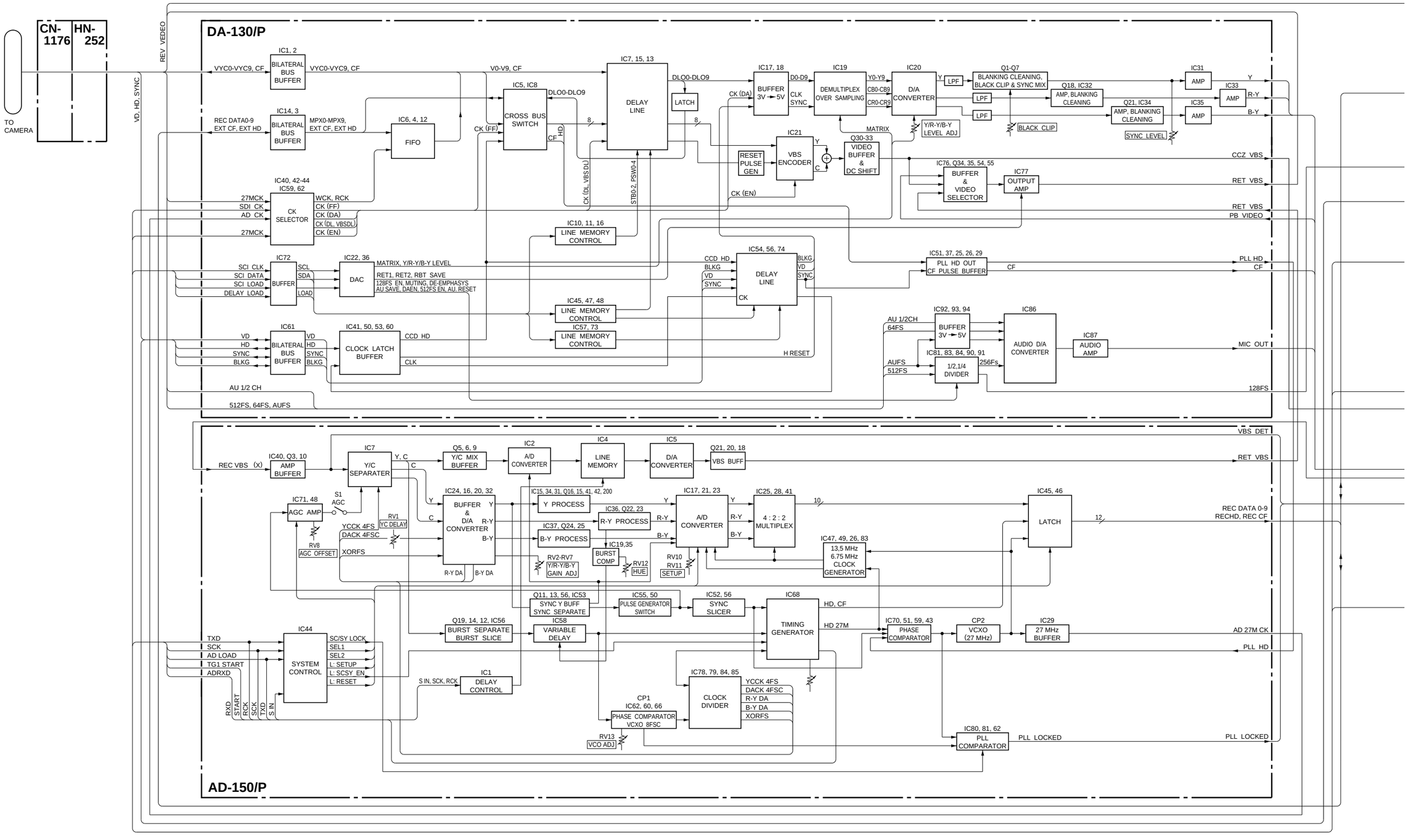


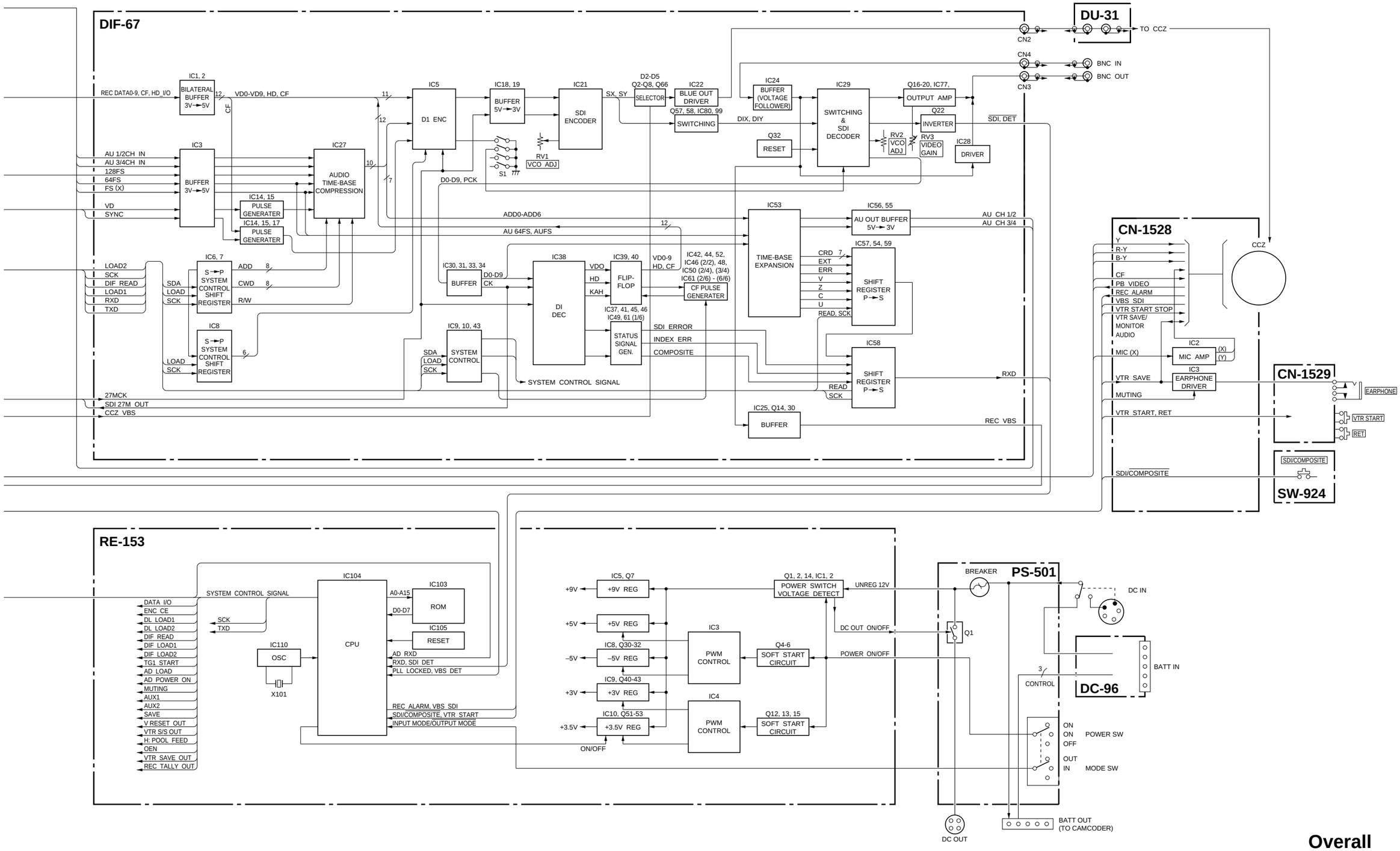
NOTE :
TMS4C2972 AND TMS4C2973 ALLOW BLOCK RANDOM ACCESS.

Section 5
Block Diagrams

5-1

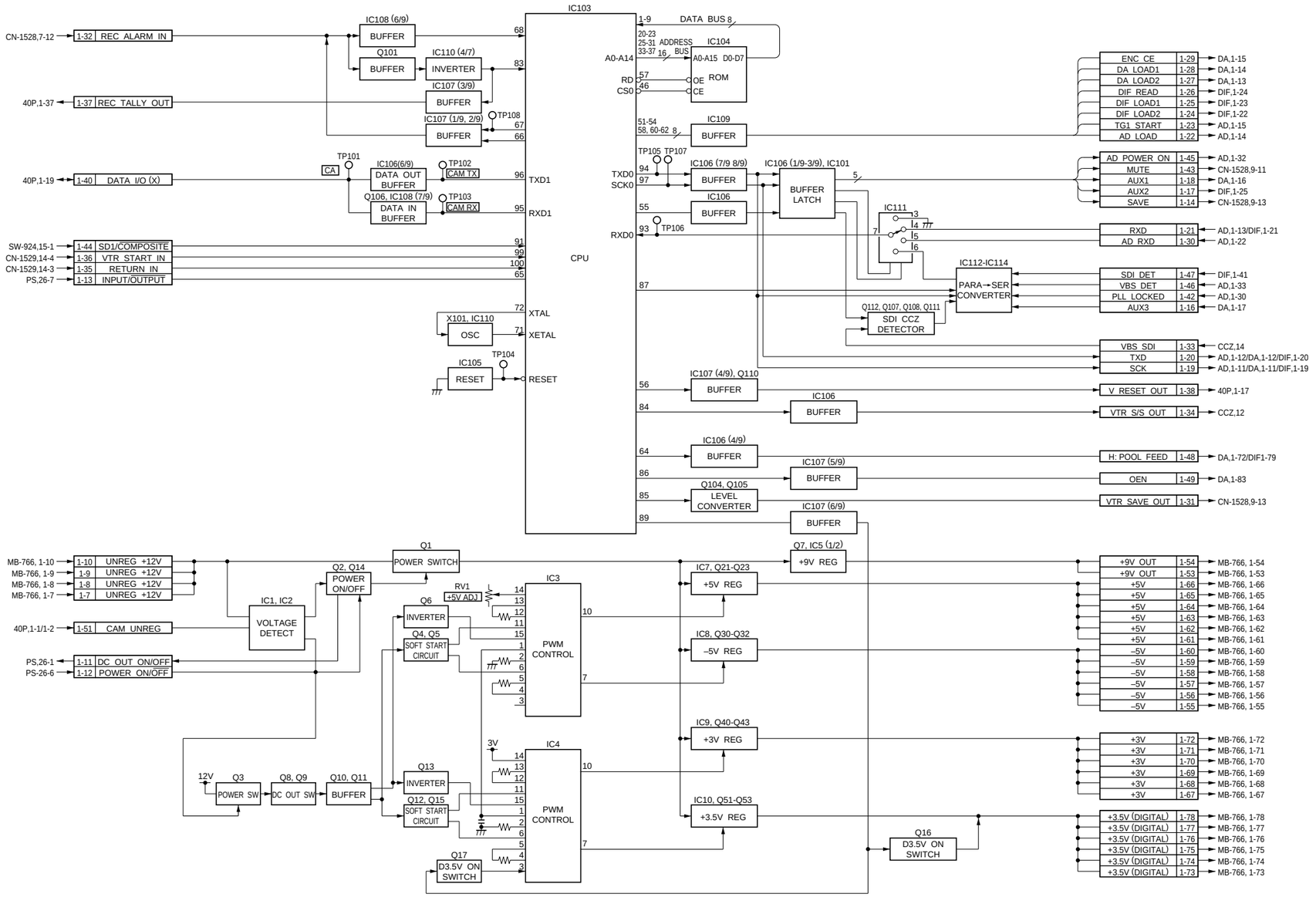
CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher





Overall
LOT NO. 709-

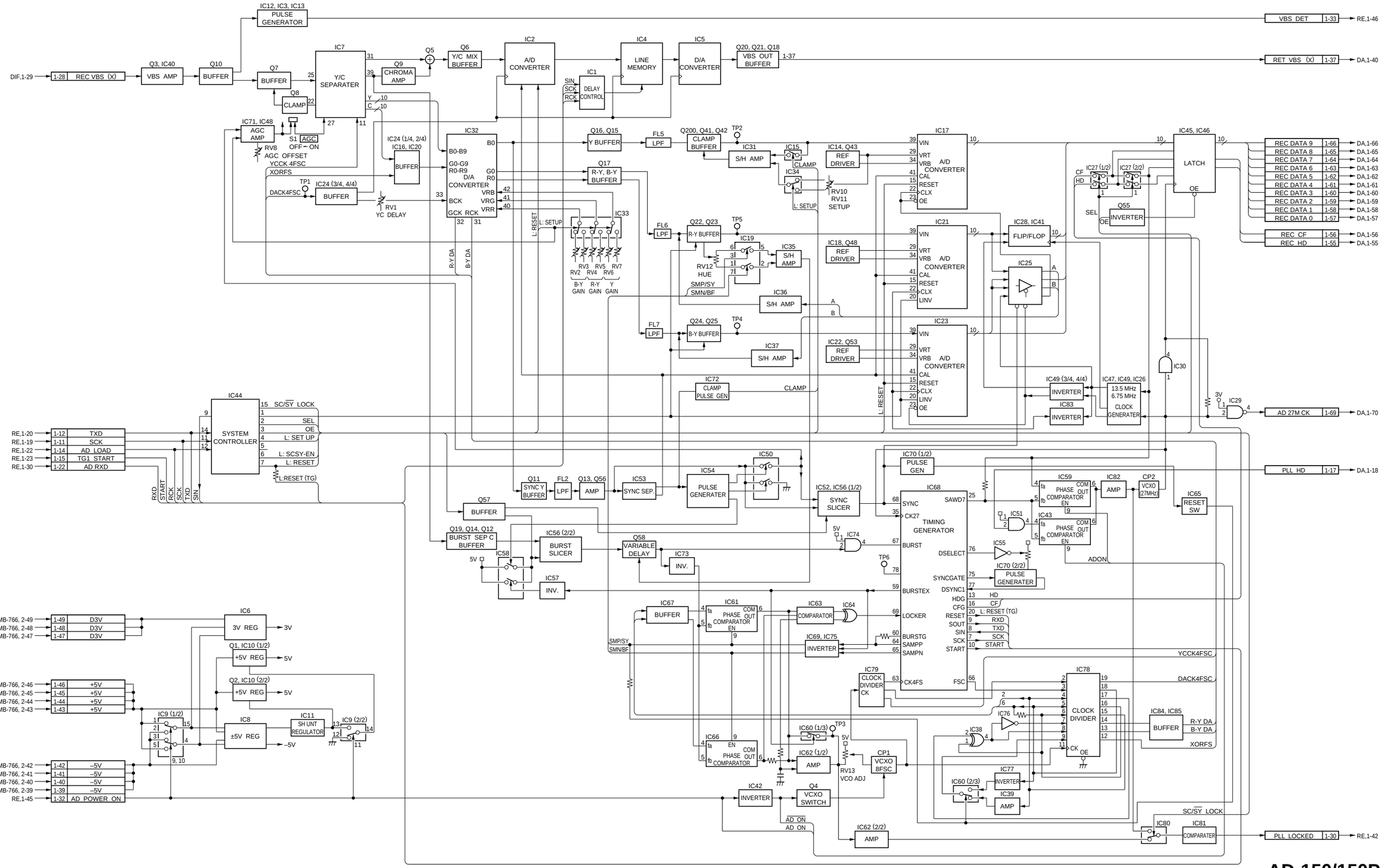
CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



RE-153
LOT NO. 709-

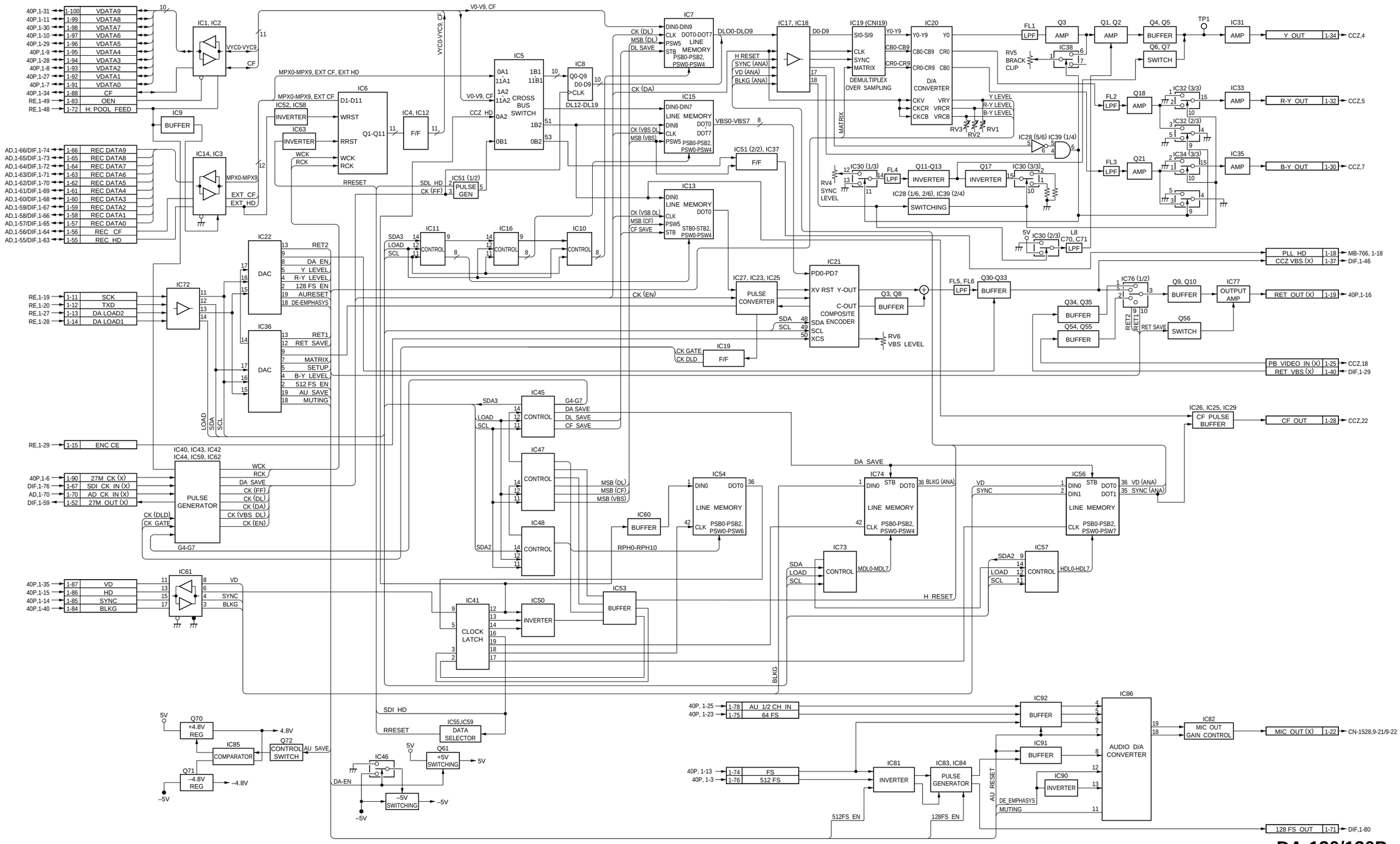
http://getMANUAL.com

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



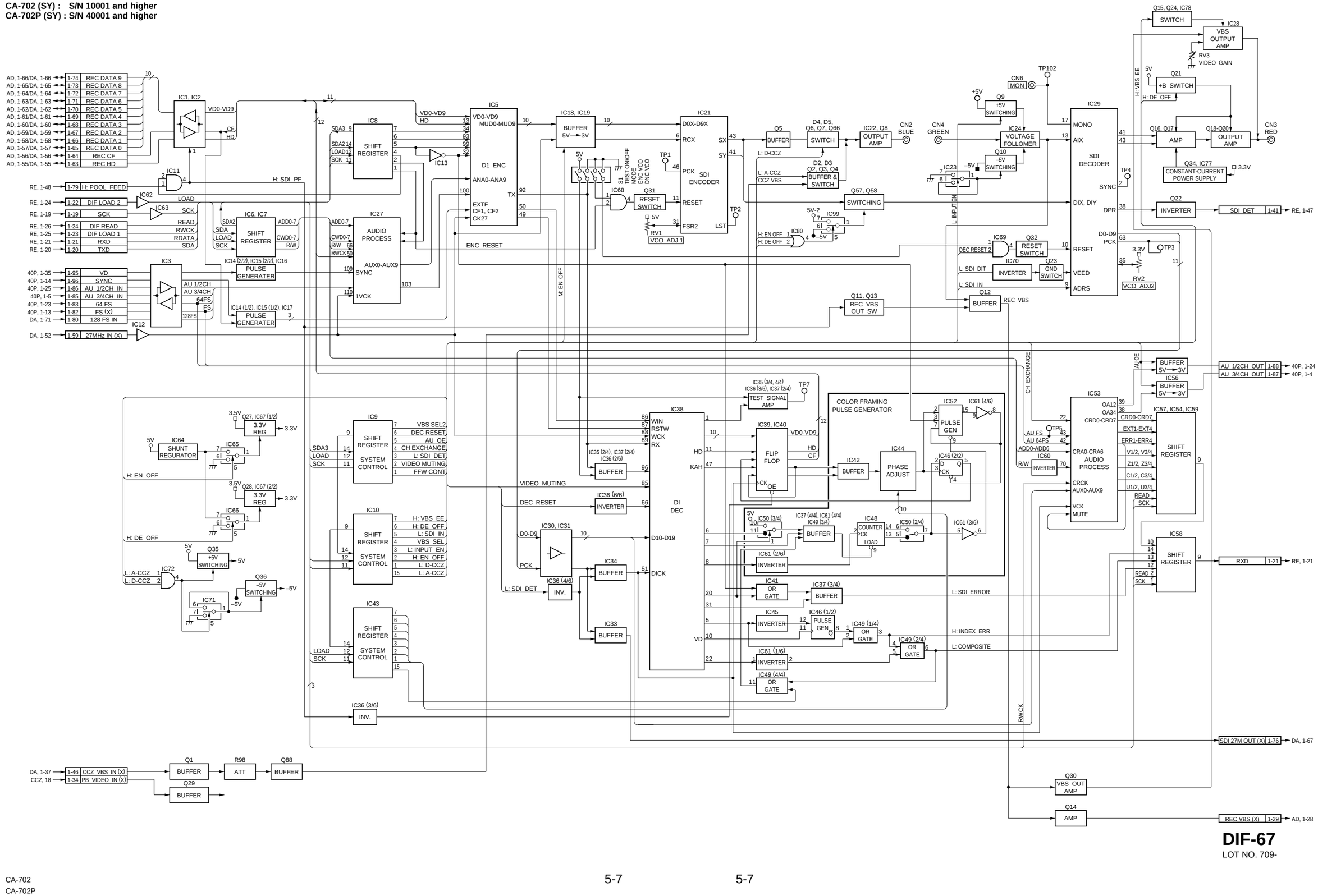
AD-150/150P
LOT NO. 709-

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



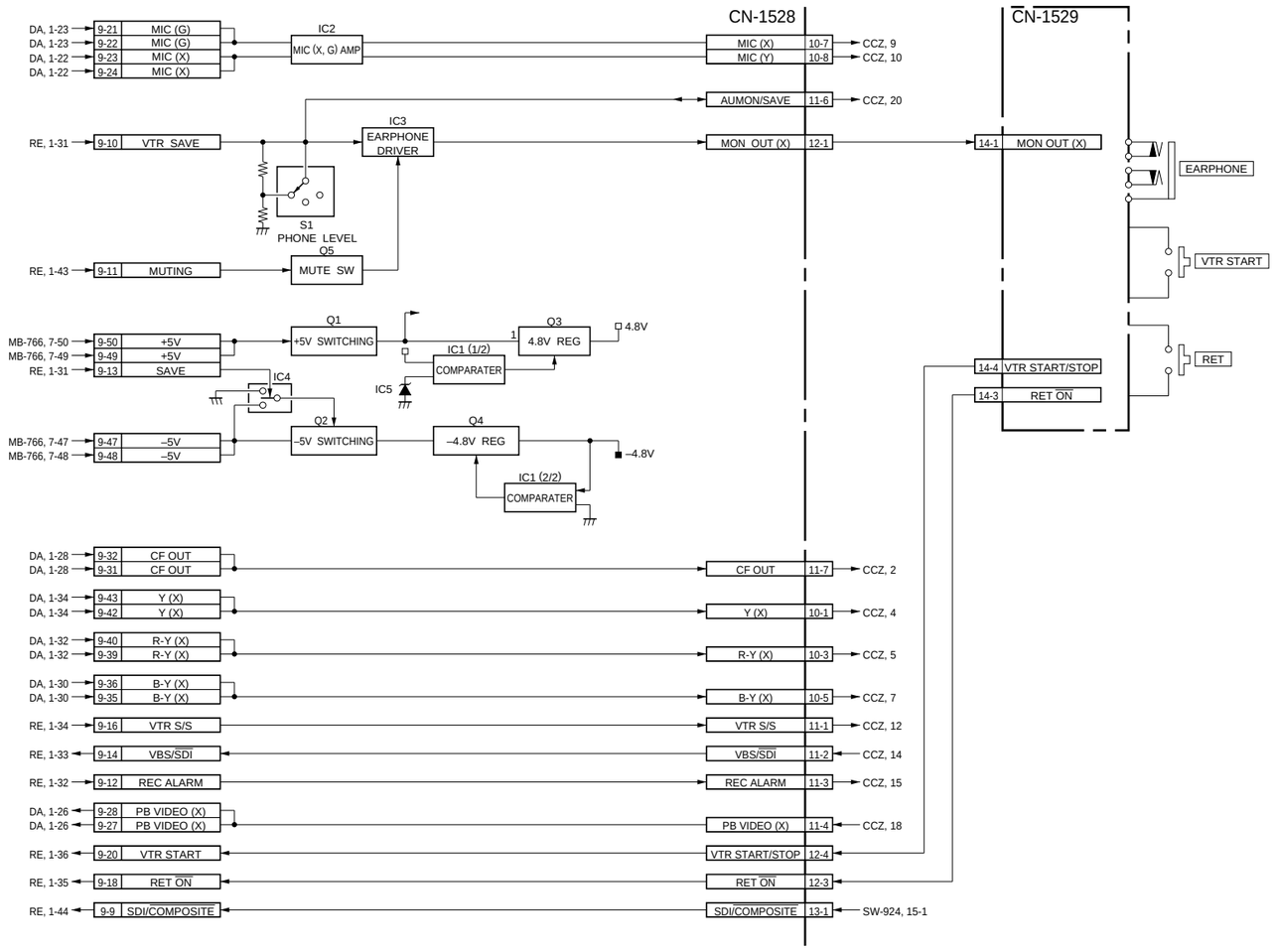
DA-130/130P
LOT NO. 709-

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



DIF-67
LOT NO. 709-

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



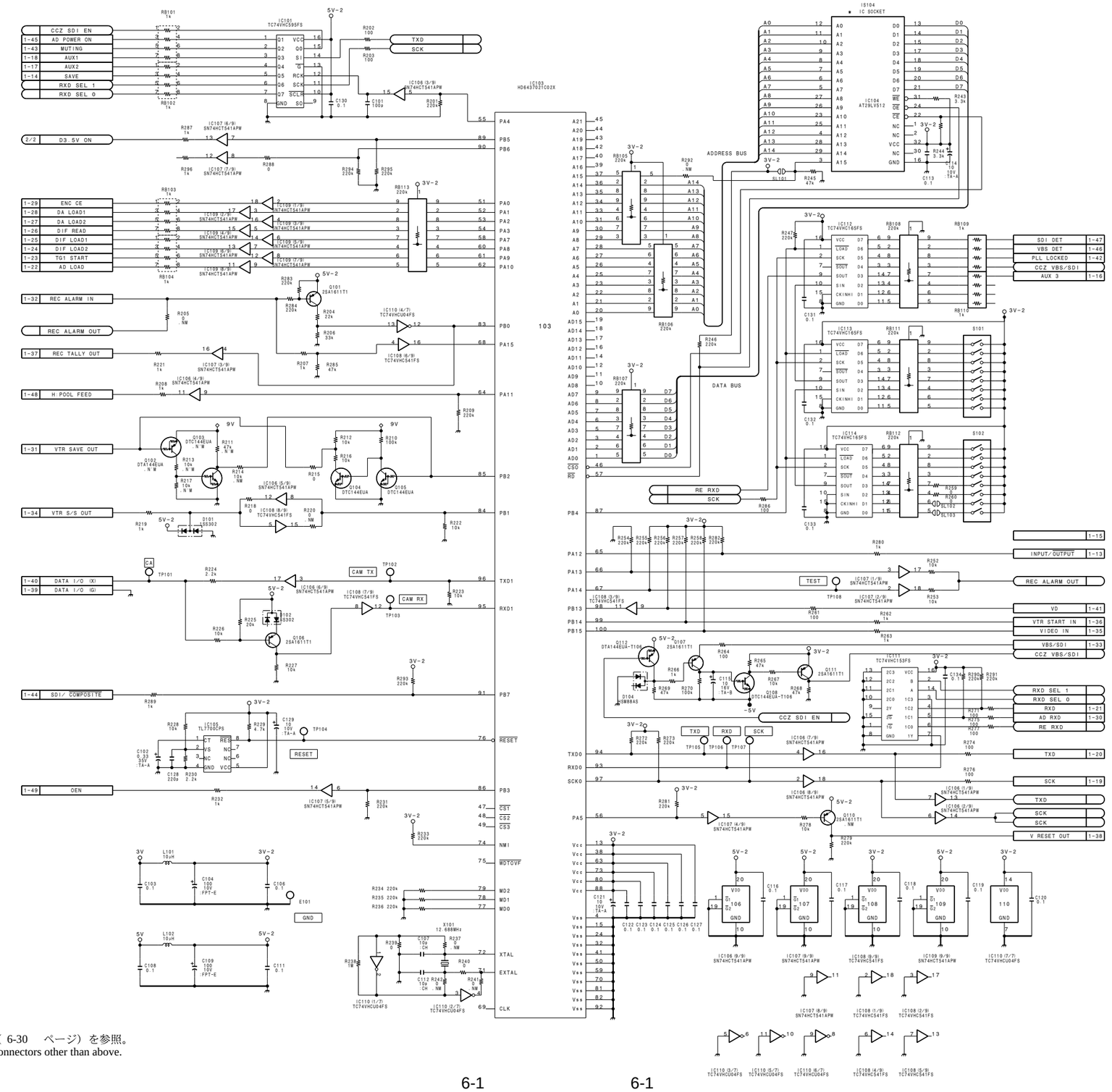
CN-1528
LOT NO. 709-

Section 6
Schematic Diagrams

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

RE-153 CN1

Pin	I/O	Destinations
11	O	:PS,26-1
12	I	:PS,26-6
13	I	:PS,26-7
14	O	:CN-1528,9-13
16	I	:DA,1-17
17	O	:DIF,1-25
18	O	:DA,1-16
19	O	:AD,1-11
	O	:DA,1-11
	O	:DIF,1-19
20	O	:AD,1-12
	O	:DA,1-12
	O	:DIF,1-20
21	I	:AD,1-13
	I	:DIF,1-21
22	O	:AD,1-14
23	O	:AD,1-15
24	O	:DIF,1-22
25	O	:DIF,1-23
26	O	:DIF,1-24
27	O	:DA,1-13
28	O	:DA,1-14
29	O	:DA,1-15
30	I	:AD,1-22
31	O	:CN-1528,7-13
32	I	:CN-1528,7-12
33	I	:CCZ,14
34	O	:CCZ,12
35	I	:CN-1529,14-3
36	I	:CN-1529,14-4
37	O	:40P,1-37
38	O	:40P,1-17
39	I/O	:40P,1-39
40	I/O	:40P,1-19
42	I	:AD,1-30
43	O	:CN-1528,9-11
44	I	:SW,15-1
45	O	:AD,1-32
46	I	:AD,1-33
47	I	:DIF,1-41
48	O	:DA,1-72
	O	:DIF,1-79
49	O	:DA,1-83
51	I	:40P,1-1
	I	:40P,1-2

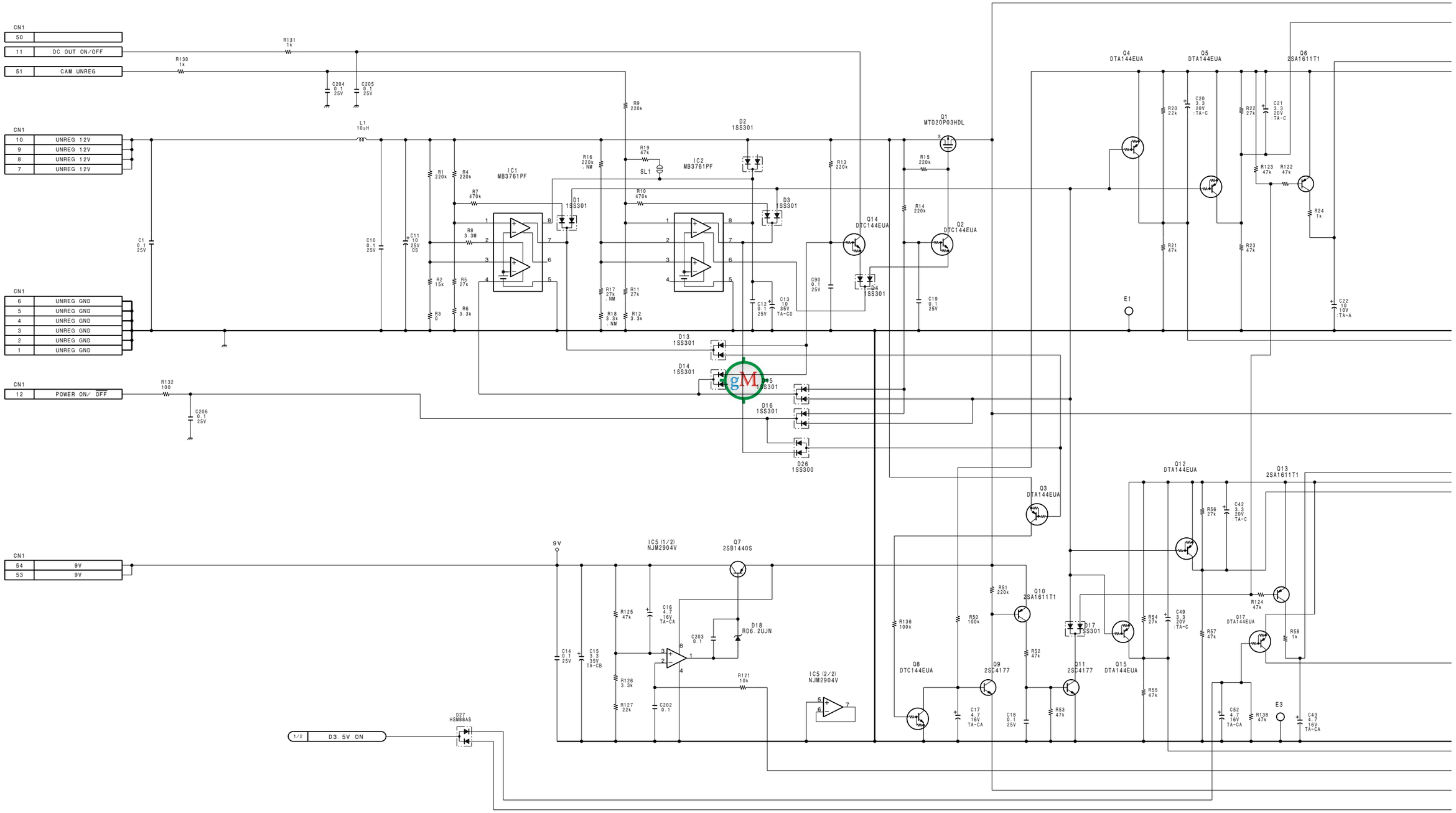


上記以外のコネクタの接続先については，FRAME WIRING（ 6-30 ページ）を参照。
Refer to FRAME WIRING (Page 6-30) in regard to destinations of connectors other than above.

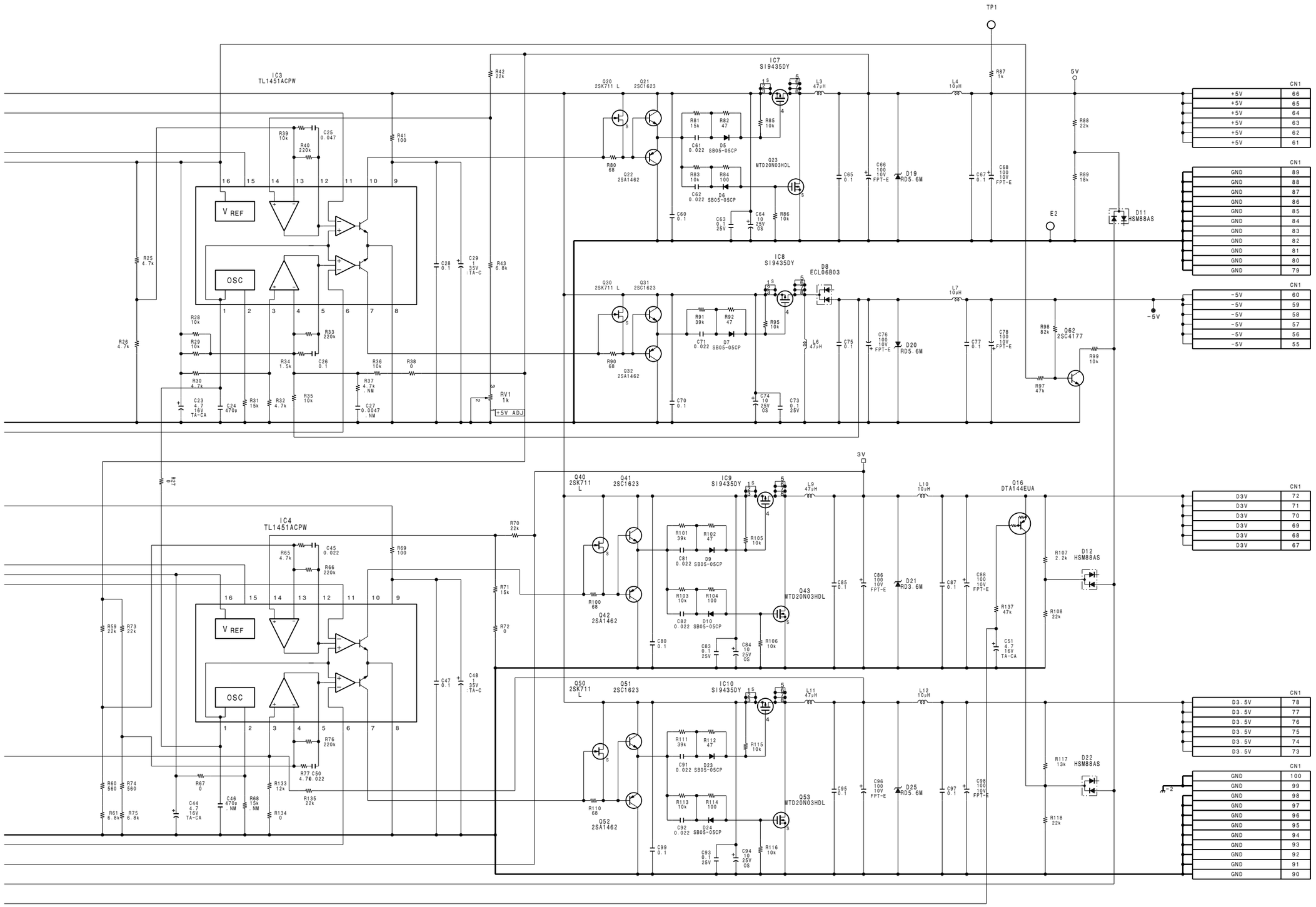
RE-153 (1/2)
BOARD NO. 1-668-753-11
LOT NO. 709-
B-¥CA702-RE153-11@

RE-153 (2/2)

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



6-2



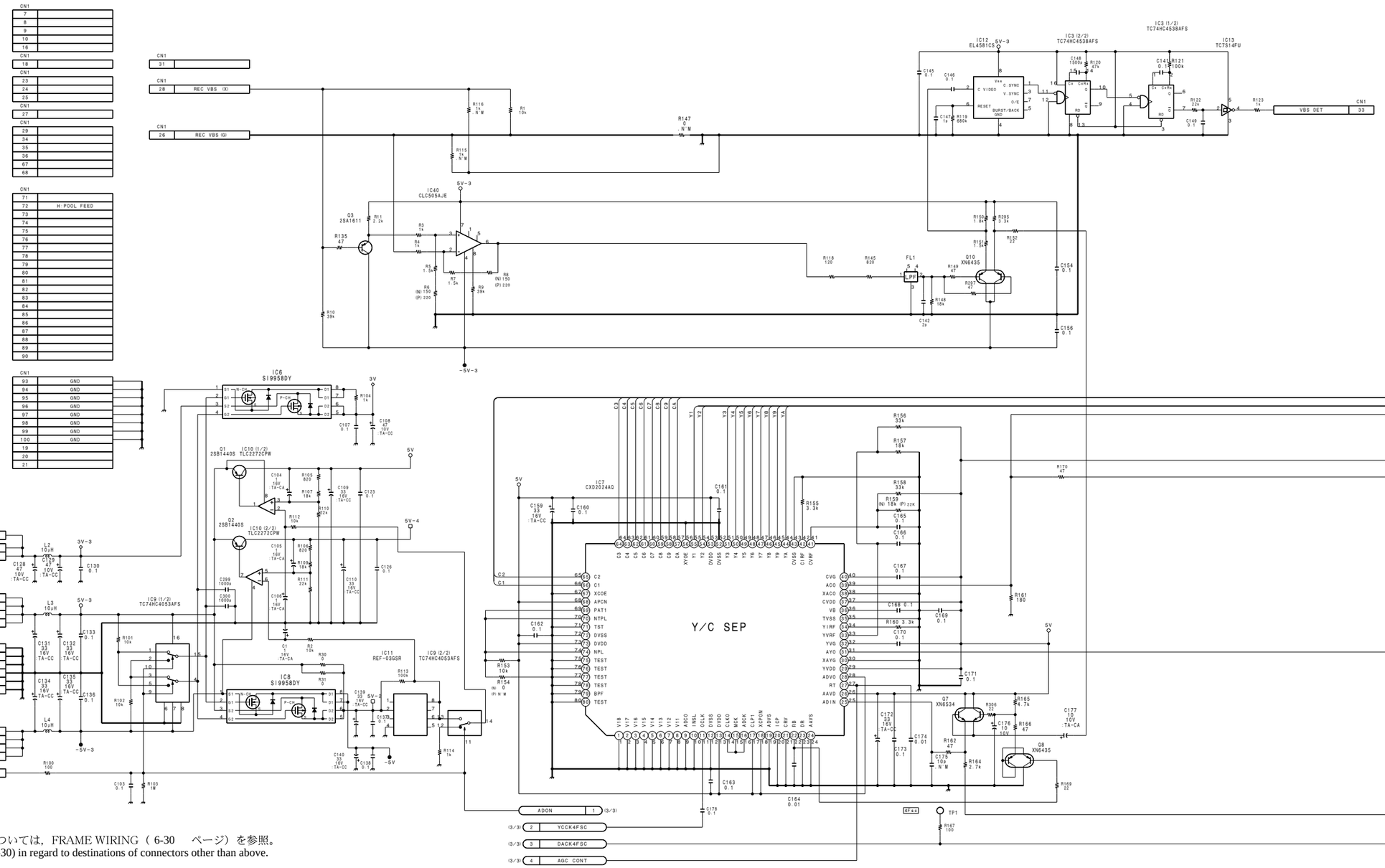
RE-153 (2/2)
BOARD NO. 1-668-753-11
LOT NO. 709-
B-¥CA702-RE153-11@

AD-150/150P (1/3)

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

AD CN1

Pin	I/O	Destinations
11	I	:RE,1-19
12	I	:RE,1-20
13	O	:RE,1-21
14	I	:RE,1-22
15	I	:RE,1-23
17	O	:DA,1-18
22	I	:RE,1-30
28	I	:DIF,1-29
30	O	:RE,1-42
32	I	:RE,1-45
33	O	:RE,1-46
37	O	:DA,1-40
55	O	:DA,1-55
56	O	:DA,1-56
57	O	:DA,1-57
58	O	:DA,1-58
59	O	:DA,1-59
60	O	:DA,1-60
61	O	:DA,1-61
62	O	:DA,1-62
63	O	:DA,1-63
64	O	:DA,1-64
65	O	:DA,1-65
66	O	:DA,1-66
69	O	:DA,1-70

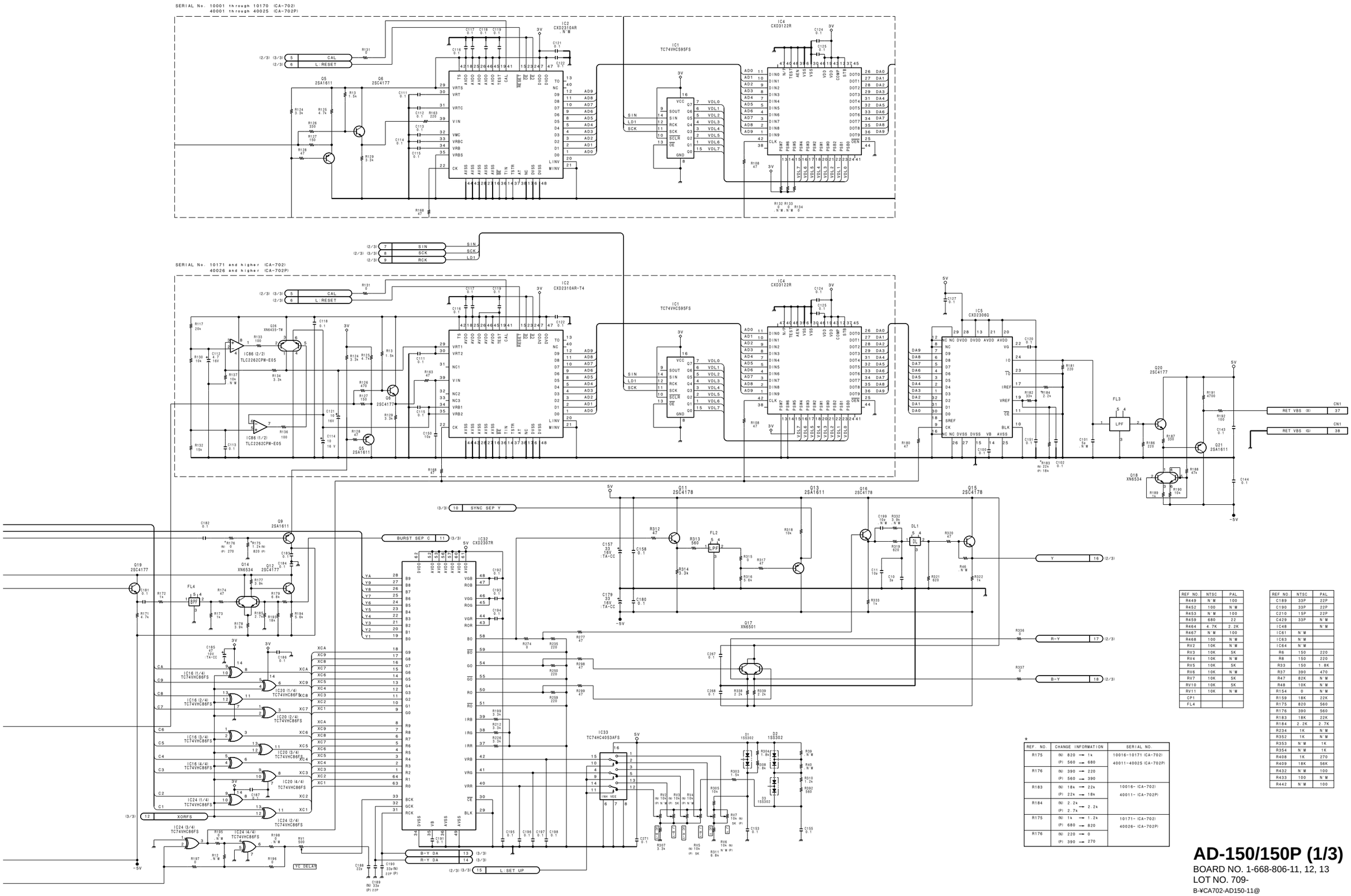


上記以外のコネクタの接続先については，FRAME WIRING（ 6-30　ページ）を参照。
Refer to FRAME WIRING (Page 6-30) in regard to destinations of connectors other than above.

6-4

SERIAL No. 10001 through 10170 (CA-702)
40001 through 40025 (CA-702P)

SERIAL No. 10171 and higher (CA-702)
40026 and higher (CA-702P)



REF. NO.	NTSC	PAL
R449	N.M	100
R452	100	N.M
R453	N.M	100
R459	680	22
R464	4.7K	2.2K
R467	N.M	100
R468	100	N.M
RV2	10K	N.M
RV3	10K	5K
RV4	10K	N.M
RV5	10K	5K
RV6	10K	N.M
RV7	10K	5K
RV10	10K	5K
RV11	10K	N.M
CP1		
FL4		

REF. NO.	NTSC	PAL
C189	33P	22P
C190	33P	22P
C210	15P	22P
C429	33P	N.M
IC48		N.M
IC61	N.M	
IC63	N.M	
IC64	N.M	
R6	150	220
R8	150	220
R33	150	1.8K
R37	390	470
R47	82K	N.M
R48	10K	N.M
R154	0	N.M
R159	18K	22K
R175	820	560
R176	390	560
R183	18K	22K
R184	2.2K	2.7K
R234	1K	N.M
R352	1K	N.M
R353	N.M	1K
R354	N.M	1K
R408	1K	270
R409	18K	56K
R432	N.M	100
R433	100	N.M
R442	N.M	100

*

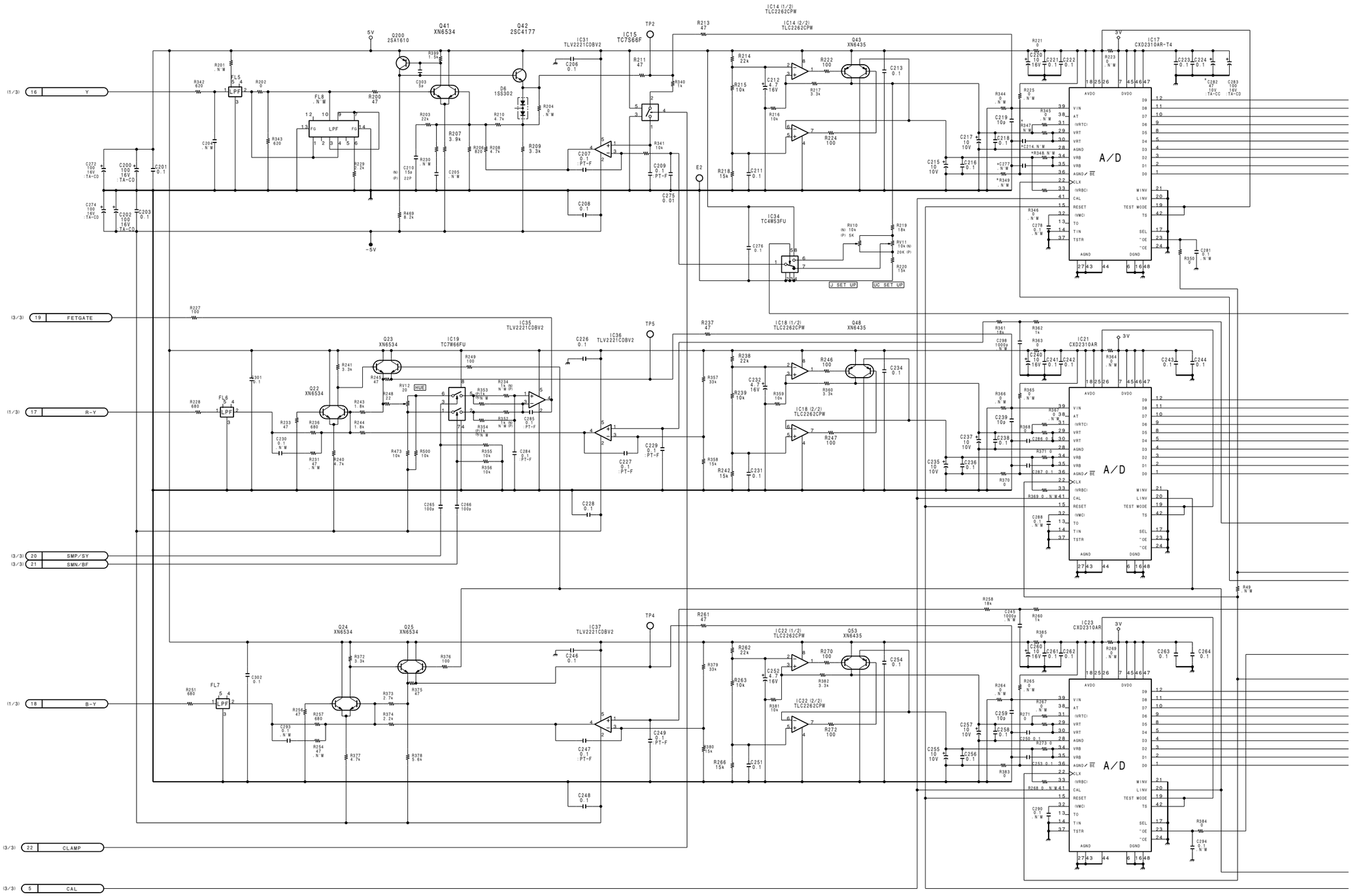
REF. NO.	CHANGE INFORMATION	SERIAL NO.
R175	(N) 820 → 1k (P) 560 → 680	10016-10171 (CA-702) 40011-40025 (CA-702P)
R176	(N) 390 → 220 (P) 560 → 390	
R183	(N) 18k → 22k (P) 22k → 18k	10016- (CA-702) 40011- (CA-702P)
R184	(N) 2.2k → 2.2k (P) 2.7k → 2.2k	
R175	(N) 1k → 1.2k (P) 680 → 820	10171- (CA-702) 40026- (CA-702P)
R176	(N) 220 → 0 (P) 390 → 270	

AD-150/150P (1/3)

BOARD NO. 1-668-806-11, 12, 13
LOT NO. 709-
B-¥CA702-AD150-11@

AD-150/150P (2/3)

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



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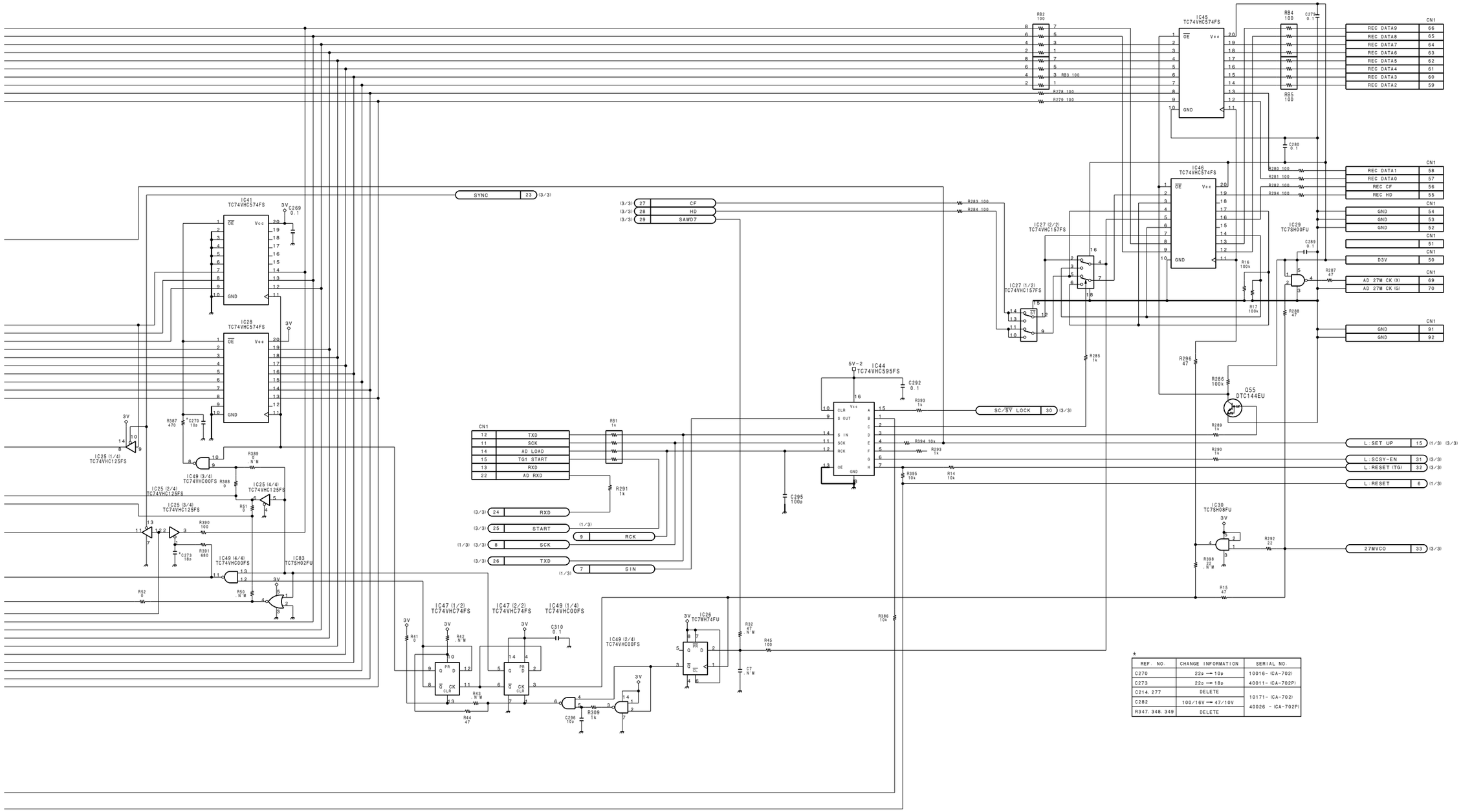
AD-150/150P (2/3)

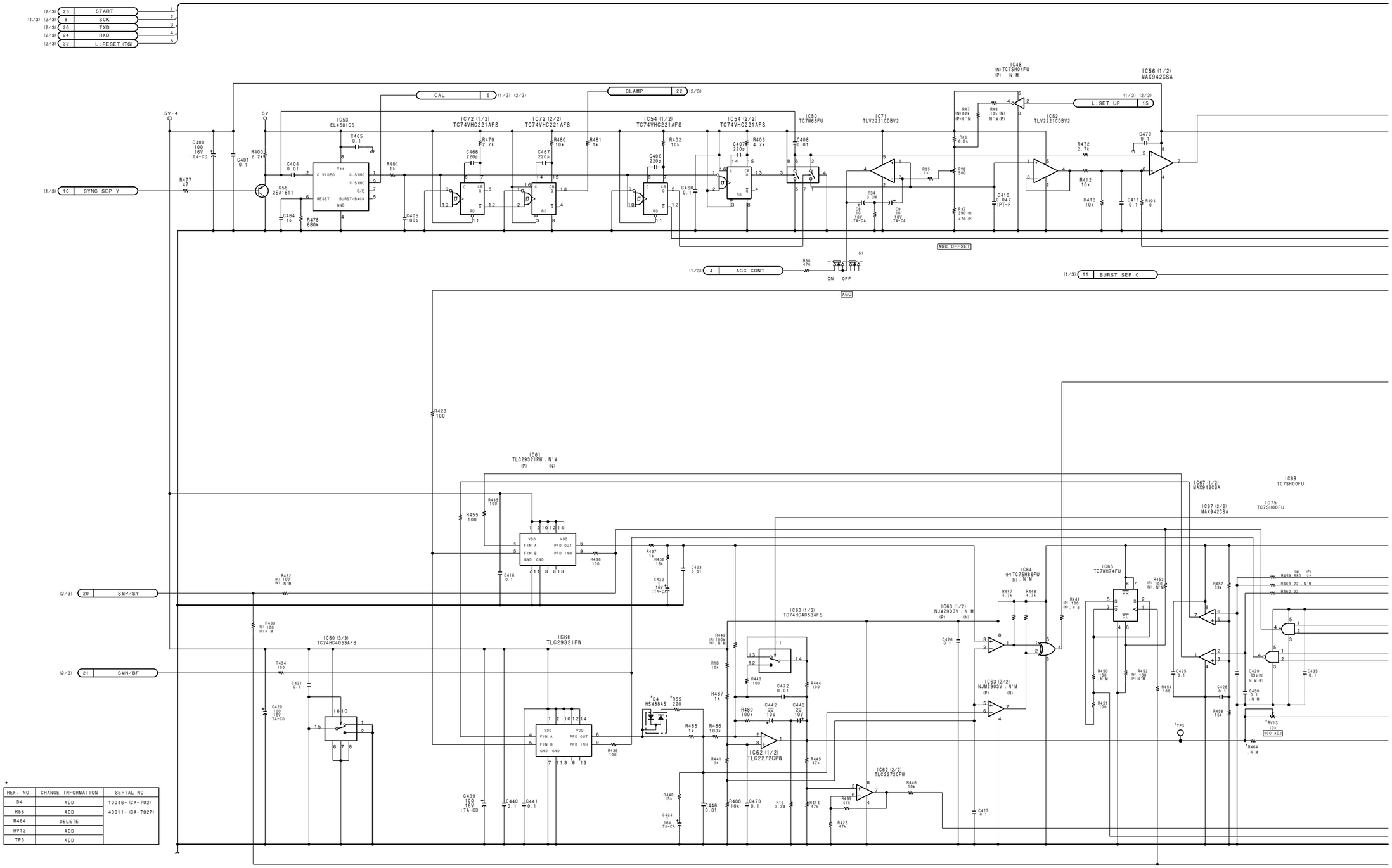


REF. NO.	CHANGE INFORMATION	SERIAL NO.
C270	22p → 10p	10016- (CA-702)
C273	22p → 18p	40011- (CA-702P)
C214. 277	DELETE	10171- (CA-702)
C282	100/16V → 47/10V	40026 - (CA-702P)
R347. 348. 349	DELETE	

AD-150/150P (2/3)

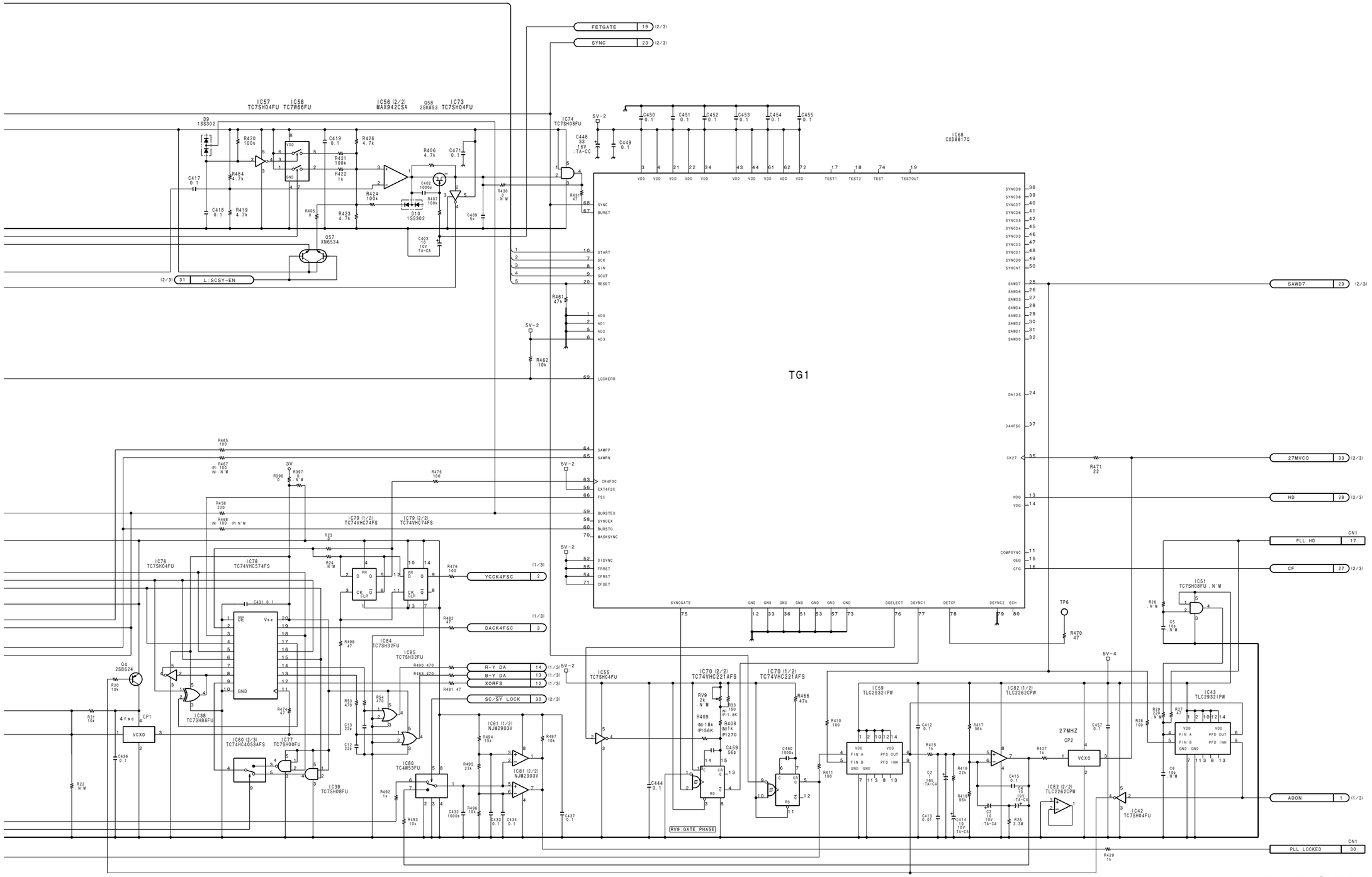
BOARD NO. 1-668-806-11, 12, 13
LOT NO. 709-
B-¥CA702-AD150-11@

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



*

REF. NO.	CHANGE INFORMATION	SERIAL NO.
D4	ADD	10046- (CA-702)
R55	ADD	40011- (CA-702P)
R464	DELETE	
RV13	ADD	
TP3	ADD	



AD-150/150P (3/3)

BOARD NO. 1-668-806-11, 12, 13
LOT NO. 709-
B-¥CA702-AD150-11@

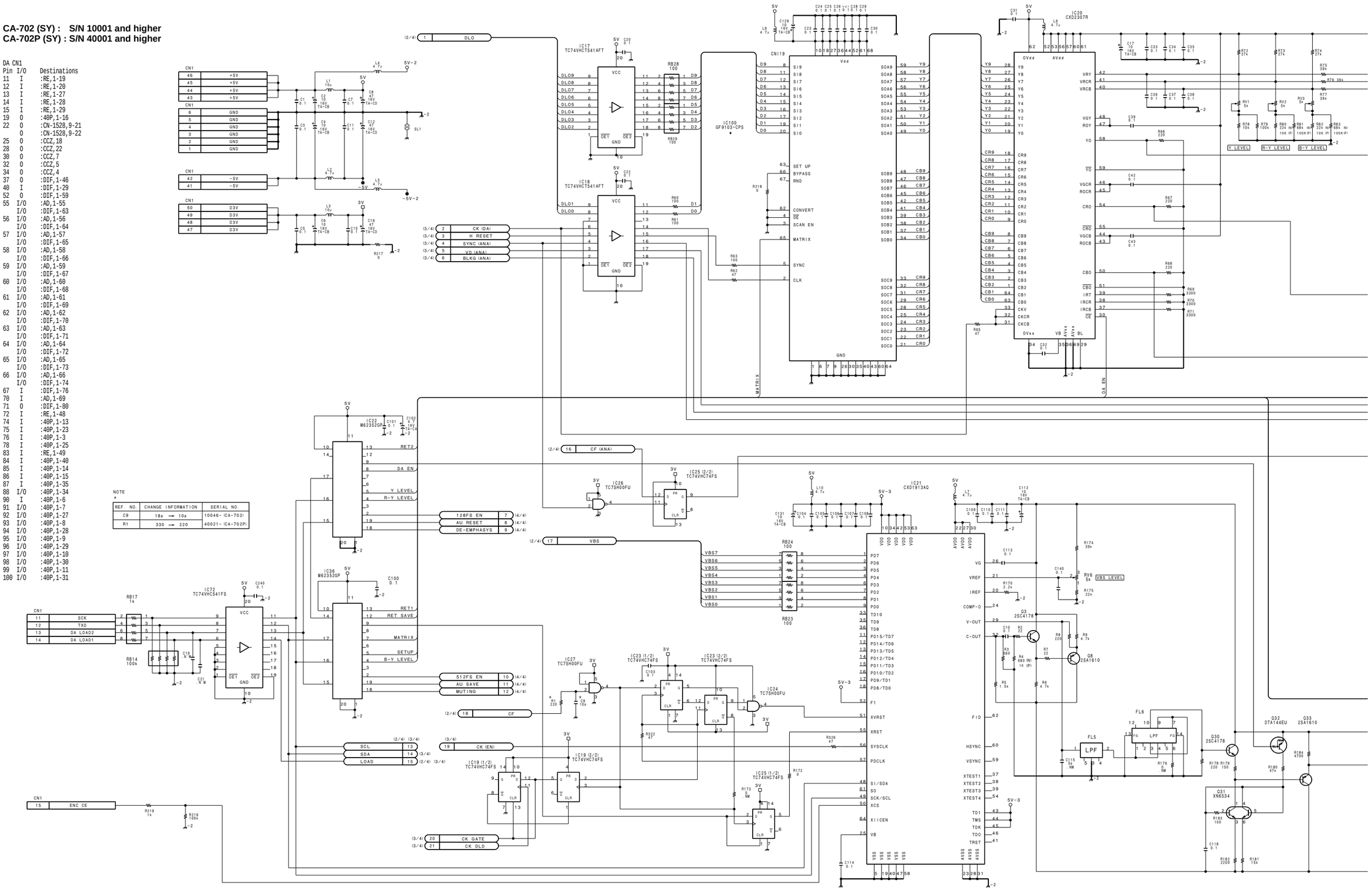
DA-130/130P (1/4)

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

DA CN1 Pin	I/O	Destinations
11	I	:RE,1-19
12	I	:RE,1-20
13	I	:RE,1-27
14	I	:RE,1-28
15	I	:RE,1-29
19	O	:40P,1-16
22	O	:CN-1528,9-21
	O	:CN-1528,9-22
25	O	:CCZ,18
28	O	:CCZ,22
30	O	:CCZ,7
32	O	:CCZ,5
34	O	:CCZ,4
37	O	:DIF,1-46
40	I	:DIF,1-29
52	O	:DIF,1-59
55	I/O	:AD,1-55
	I/O	:DIF,1-63
56	I/O	:AD,1-56
	I/O	:DIF,1-64
57	I/O	:AD,1-57
	I/O	:DIF,1-65
58	I/O	:AD,1-58
	I/O	:DIF,1-66
59	I/O	:AD,1-59
	I/O	:DIF,1-67
60	I/O	:AD,1-60
	I/O	:DIF,1-68
61	I/O	:AD,1-61
	I/O	:DIF,1-69
62	I/O	:AD,1-62
	I/O	:DIF,1-70
63	I/O	:AD,1-63
	I/O	:DIF,1-71
64	I/O	:AD,1-64
	I/O	:DIF,1-72
65	I/O	:AD,1-65
	I/O	:DIF,1-73
66	I/O	:AD,1-66
	I/O	:DIF,1-74
67	I	:DIF,1-76
70	I	:AD,1-69
71	O	:DIF,1-80
72	I	:RE,1-48
74	I	:40P,1-13
75	I	:40P,1-23
76	I	:40P,1-3
78	I	:40P,1-25
83	I	:RE,1-49
84	I	:40P,1-40
85	I	:40P,1-14
86	I	:40P,1-15
87	I	:40P,1-35
88	I/O	:40P,1-34
90	I	:40P,1-6
91	I/O	:40P,1-7
92	I/O	:40P,1-27
93	I/O	:40P,1-8
94	I/O	:40P,1-28
95	I/O	:40P,1-9
96	I/O	:40P,1-29
97	I/O	:40P,1-10
98	I/O	:40P,1-30
99	I/O	:40P,1-11
100	I/O	:40P,1-31

NOTE
*

REF. NO.	CHANGE INFORMATION	SERIAL NO.
C9	18p → 10p	10046- (CA-702)
R1	330 → 220	40021- (CA-702P)



上記以外のコネクタの接続先については，FRAME WIRING（ 6-30 ページ）を参照。
Refer to FRAME WIRING (Page 6-30) in regard to destinations of connectors other than above.

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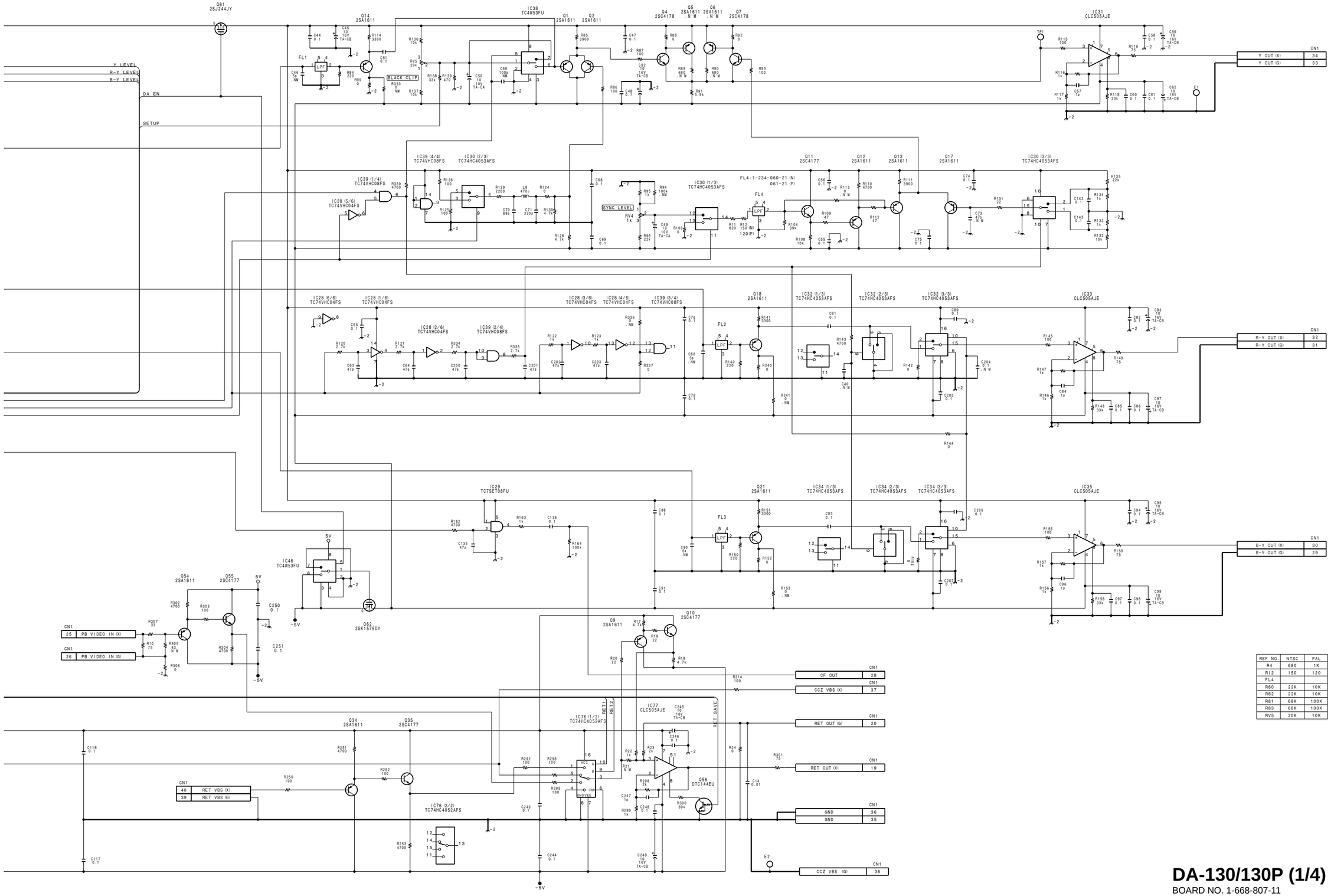


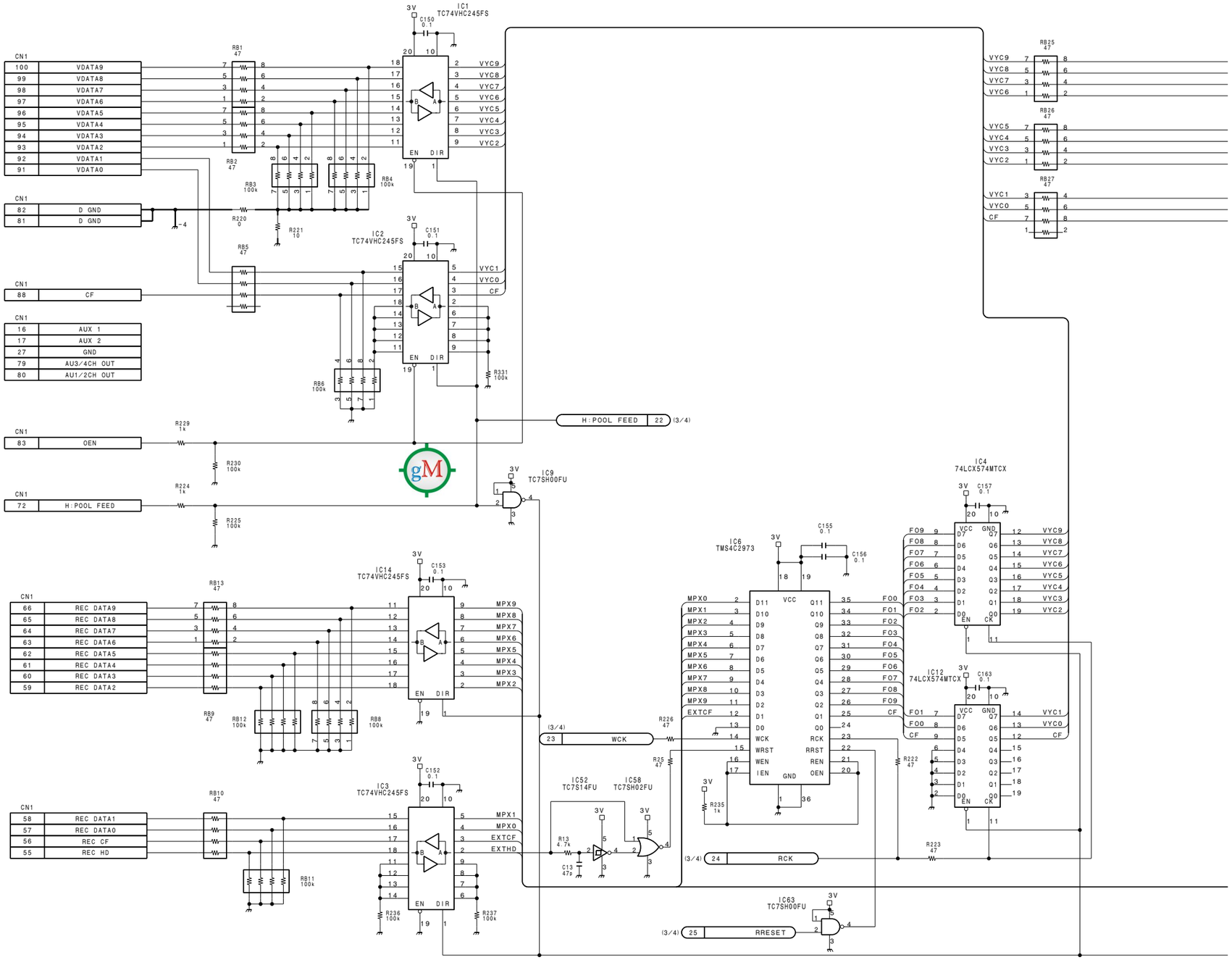
REF NO.	NTSC	PAL
R4	680	1K
R12	150	120
FL4		
R80	22K	10K
R82	22K	10K
R81	68K	100K
R83	68K	100K
RV5	20K	10K

DA-130/130P (1/4)

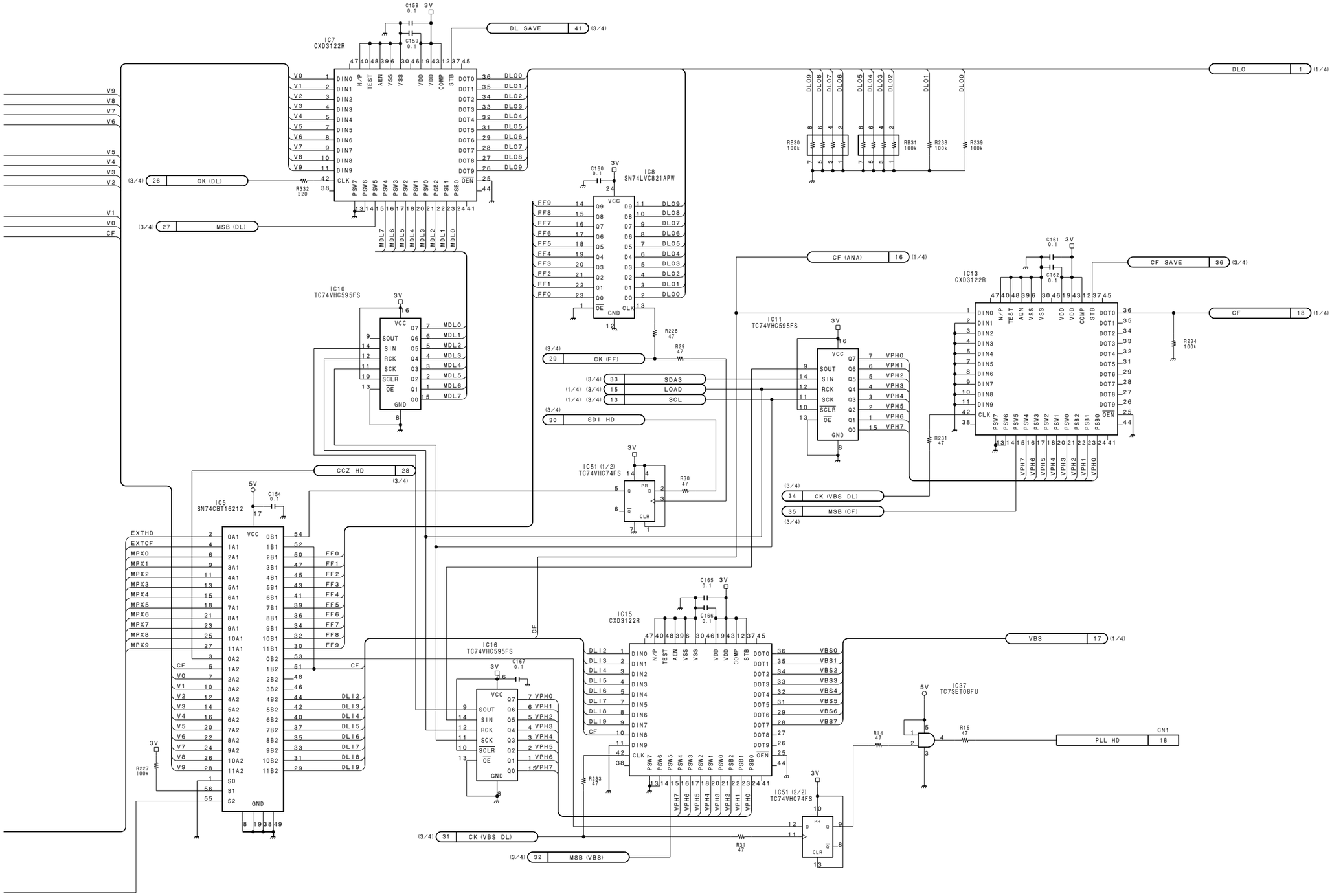
BOARD NO. 1-668-807-11
LOT NO. 709-
B-¥CA702-DA130-11@

DA-130/130P (2/4)

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

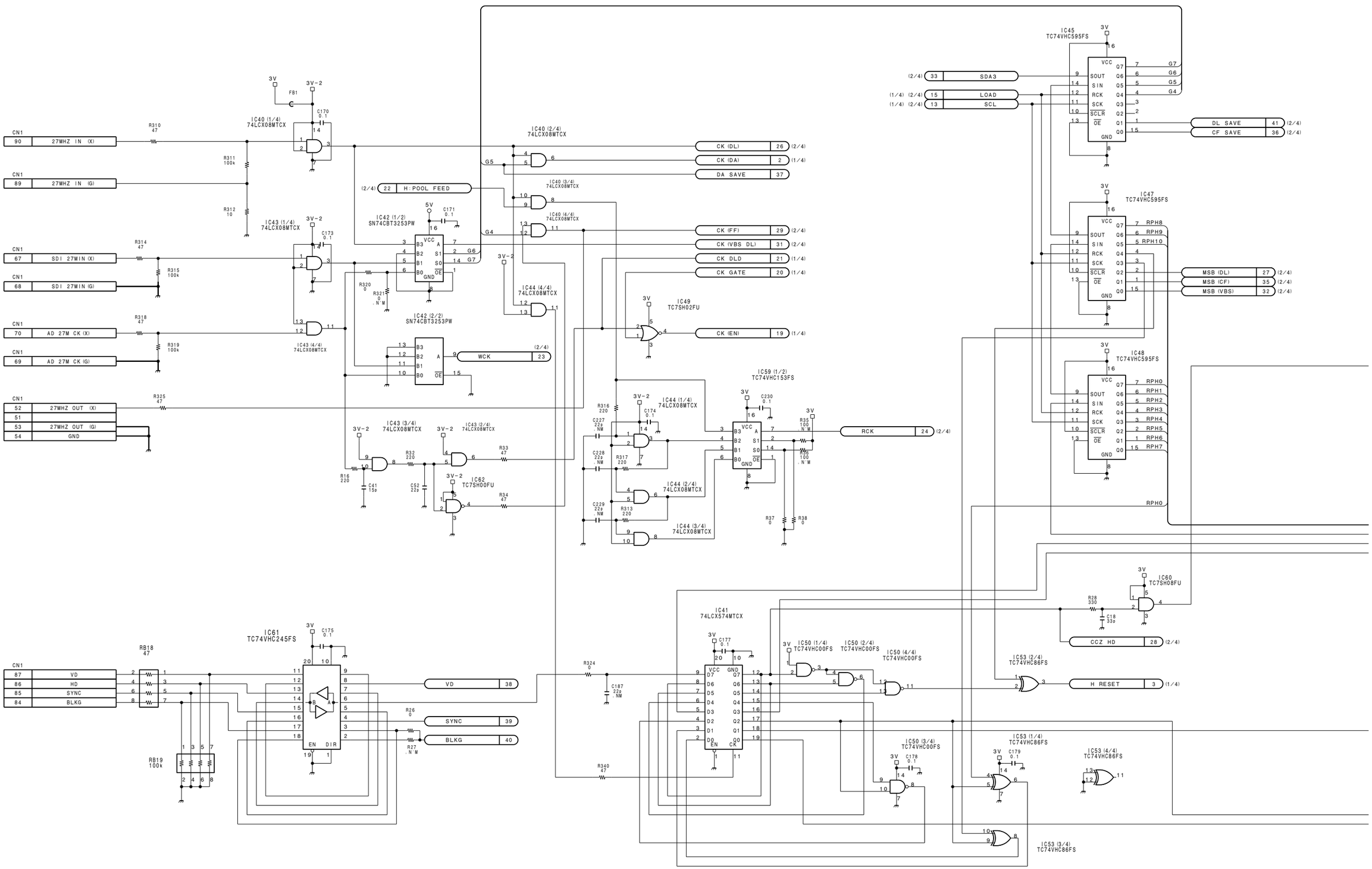


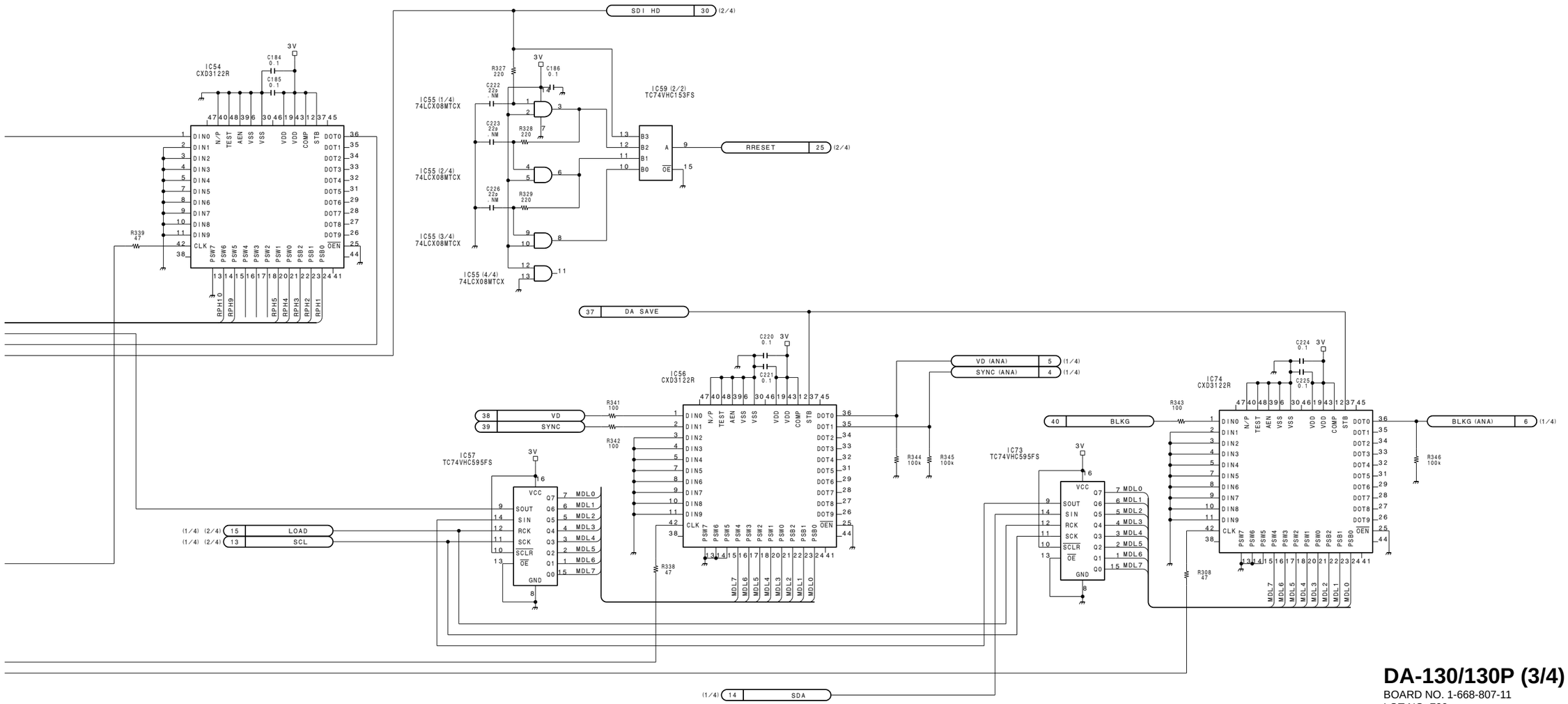
DA-130/130P (2/4)



DA-130/130P (2/4)
BOARD NO. 1-668-807-11
LOT NO. 709-
B-¥CA702-DA130-11@

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



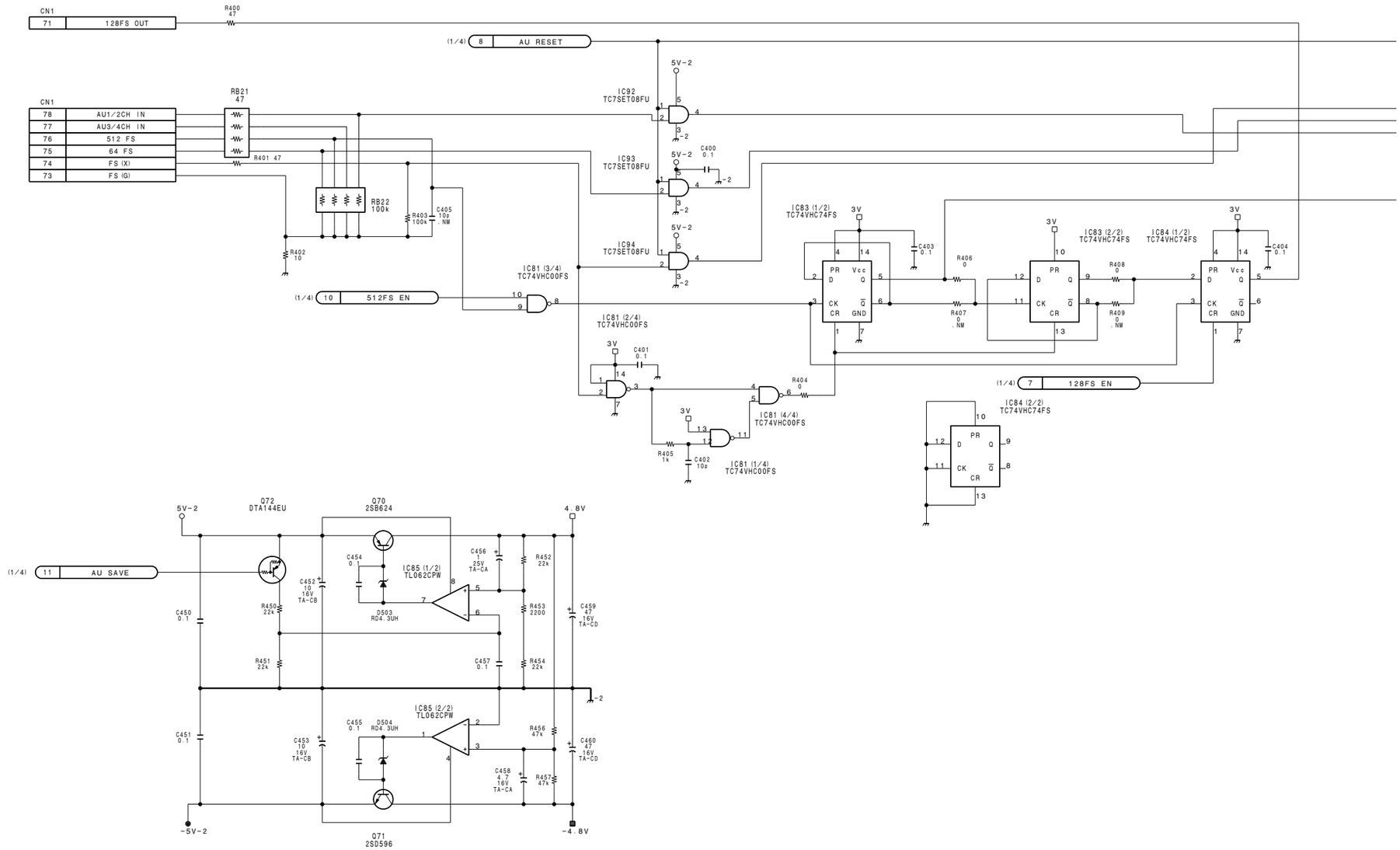


DA-130/130P (3/4)

BOARD NO. 1-668-807-11
LOT NO. 709-
B-¥CA702-DA130-11@

DA-130/130P (4/4)

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



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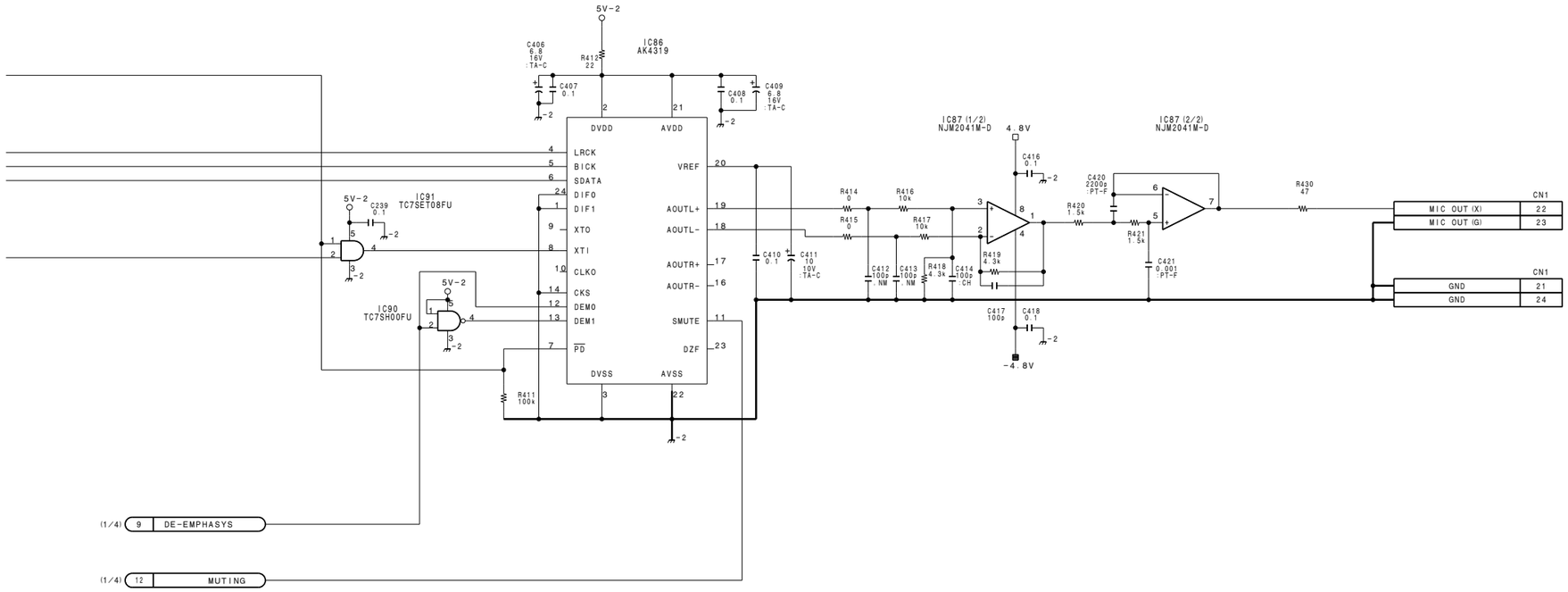
DA-130/130P (4/4)

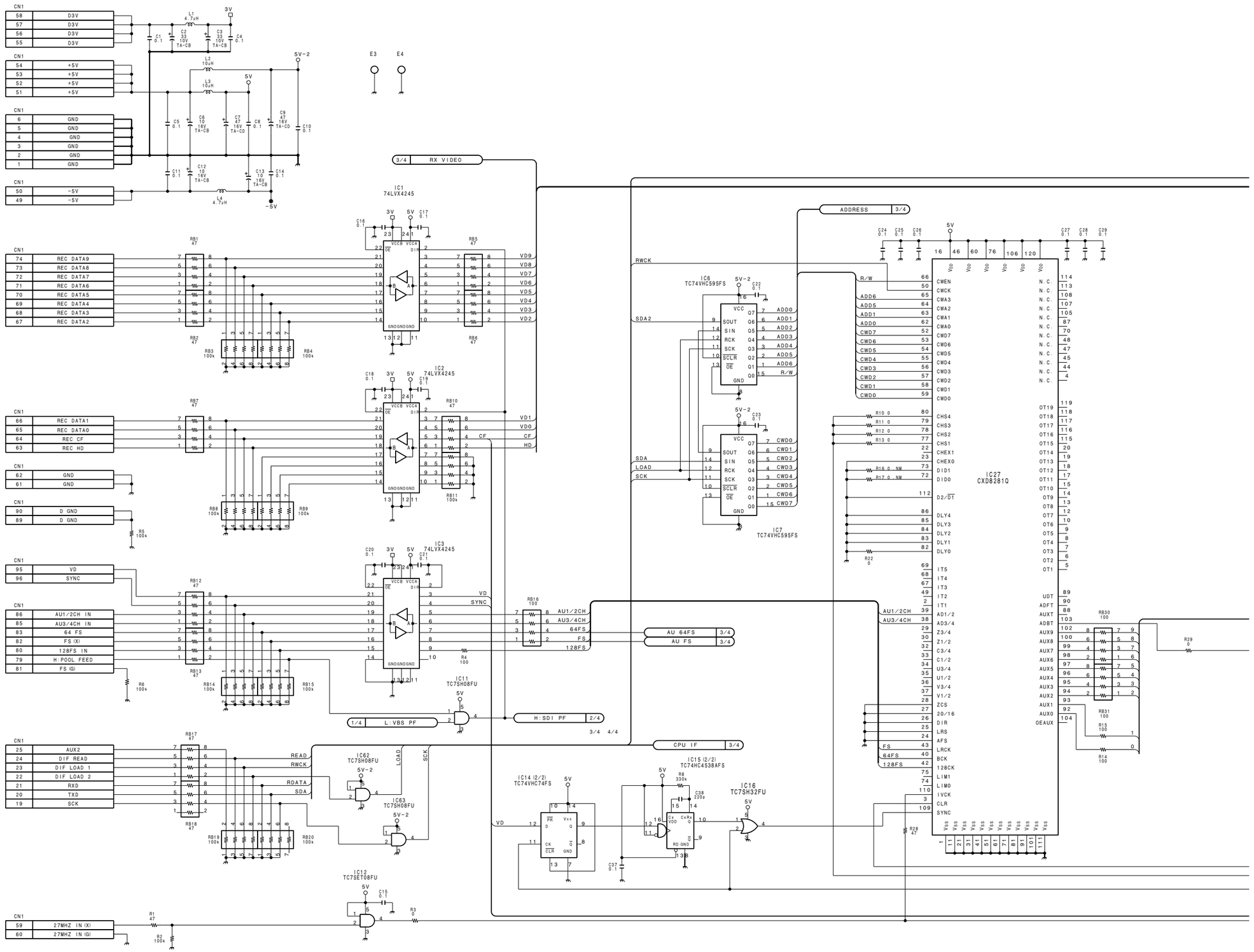


6-17

DIF-67 (1/4)

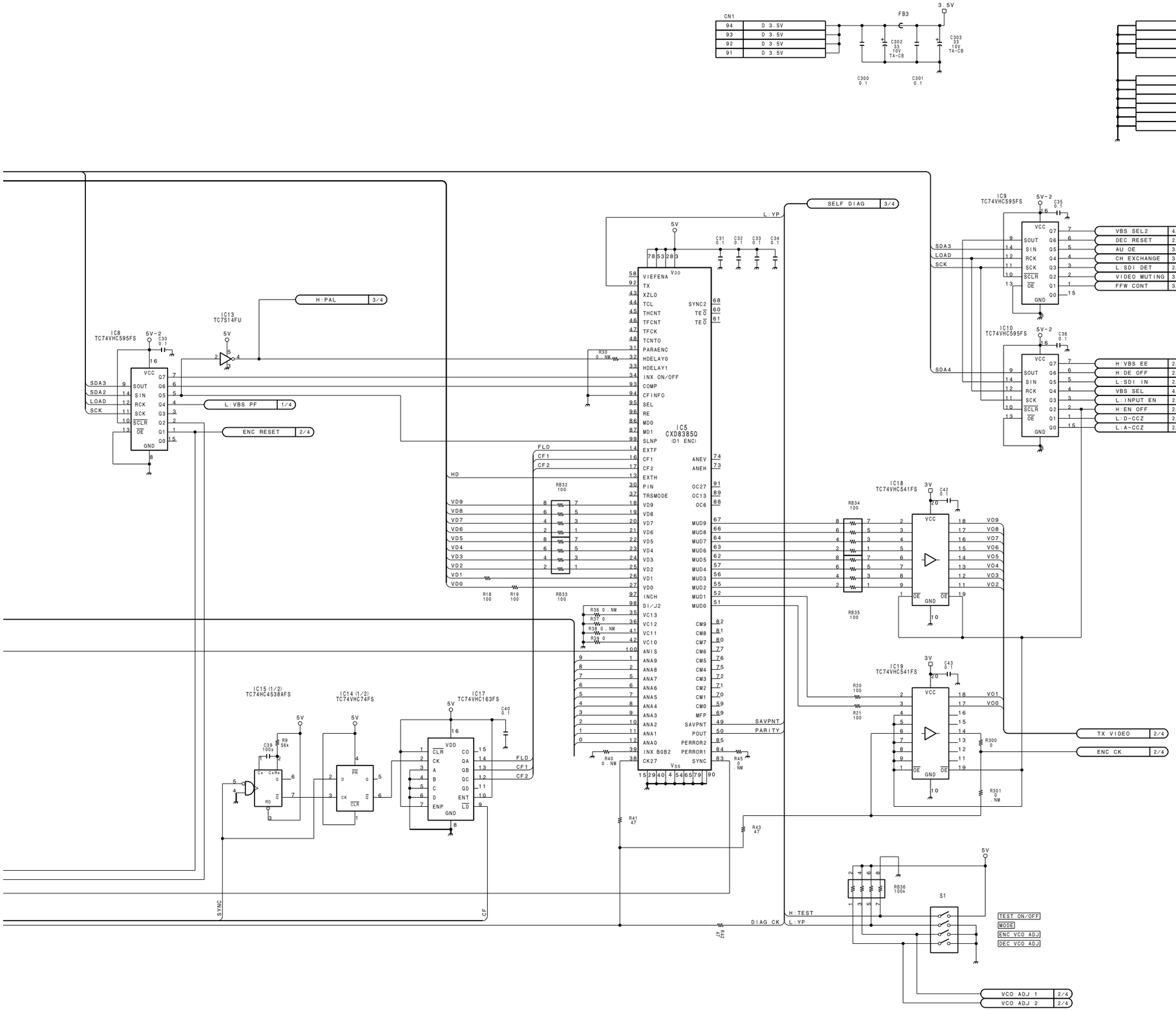
CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

DIF CN1 Pin	I/O	Destinations
19	I	:RE,1-19
20	I	:RE,1-20
21	I	:RE,1-21
22	I	:RE,1-24
23	I	:RE,1-25
24	I	:RE,1-26
29	O	:AD,1-28
34	I	:CCZ,18
41	O	:RE,1-47
46	I	:DA,1-37
59	I	:DA,1-52
63	I/O	:AD,1-55
	I/O	:DA,1-55
64	I/O	:AD,1-56
	I/O	:DA,1-56
65	I/O	:AD,1-57
	I/O	:DA,1-57
66	I/O	:AD,1-58
	I/O	:DA,1-58
67	I/O	:AD,1-59
	I/O	:DA,1-59
68	I/O	:AD,1-60
	I/O	:DA,1-60
69	I/O	:AD,1-61
	I/O	:DA,1-61
70	I/O	:AD,1-62
	I/O	:DA,1-62
71	I/O	:AD,1-63
	I/O	:DA,1-63
72	I/O	:AD,1-64
	I/O	:DA,1-64
73	I/O	:AD,1-65
	I/O	:DA,1-65
74	I/O	:AD,1-66
	I/O	:DA,1-66
76	O	:DA,1-67
79	I	:RE,1-48
82	I	:40P,1-13
83	I	:40P,1-23
85	I	:40P,1-5
86	I	:40P,1-25
87	O	:40P,1-4
88	O	:40P,1-24
95	I	:40P,1-35
96	I	:40P,1-14



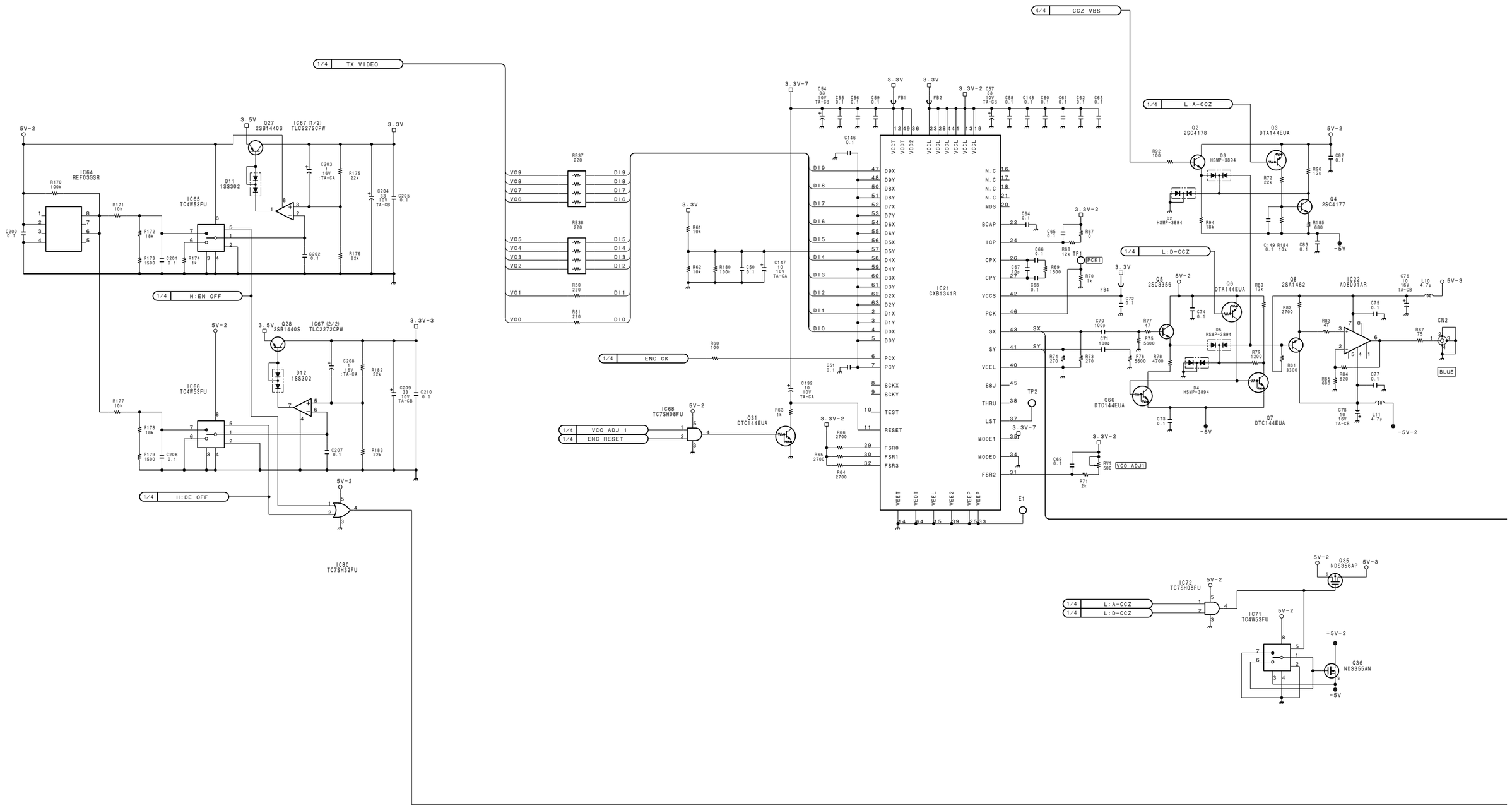
上記以外のコネクタの接続先については，FRAME WIRING（ 6-30 ページ）を参照。
Refer to FRAME WIRING (Page 6-30) in regard to destinations of connectors other than above.

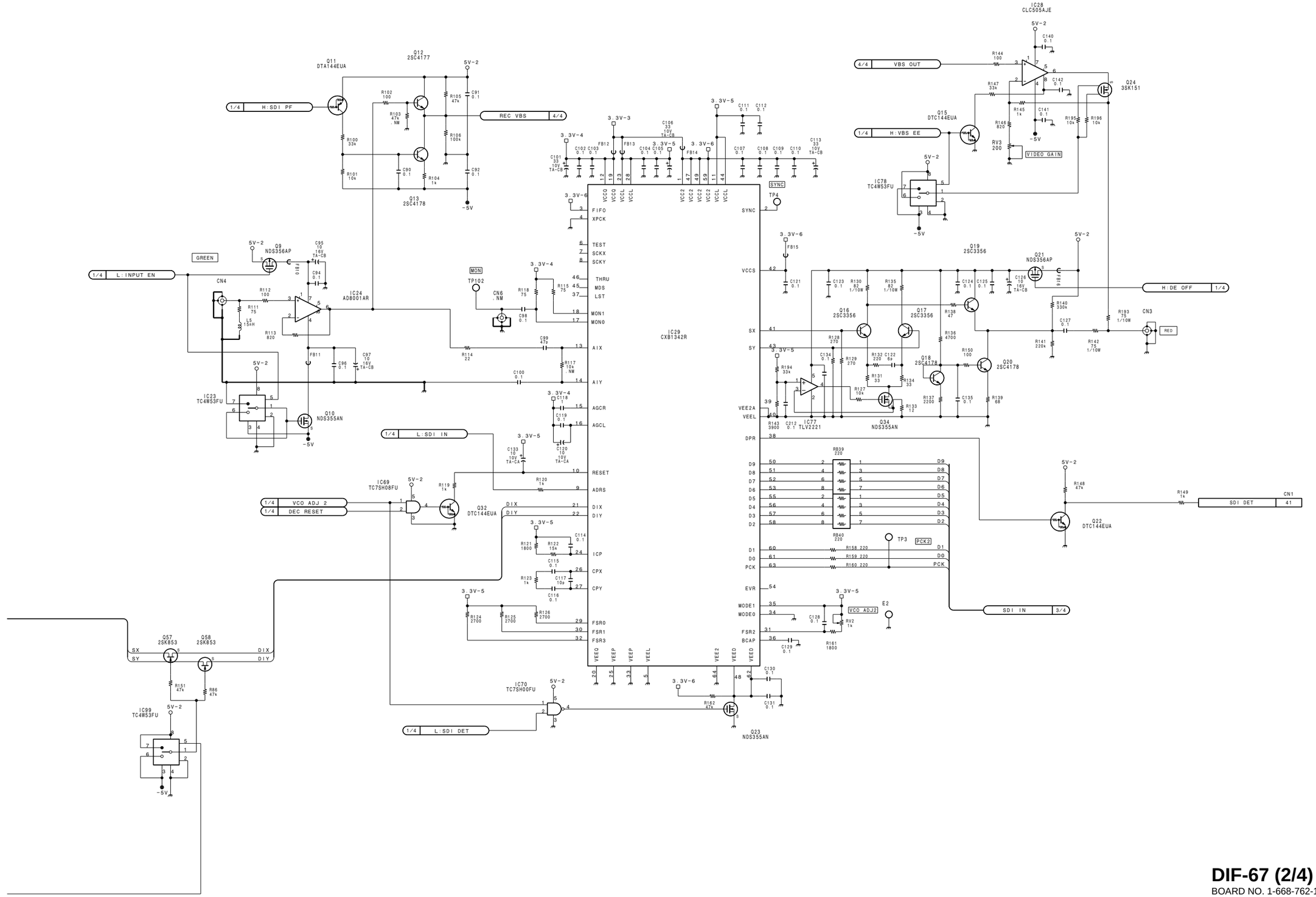
6-18



DIF-67 (1/4)
BOARD NO. 1-668-762-11
LOT NO. 709-
B-¥CA702-DIF67-11@

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

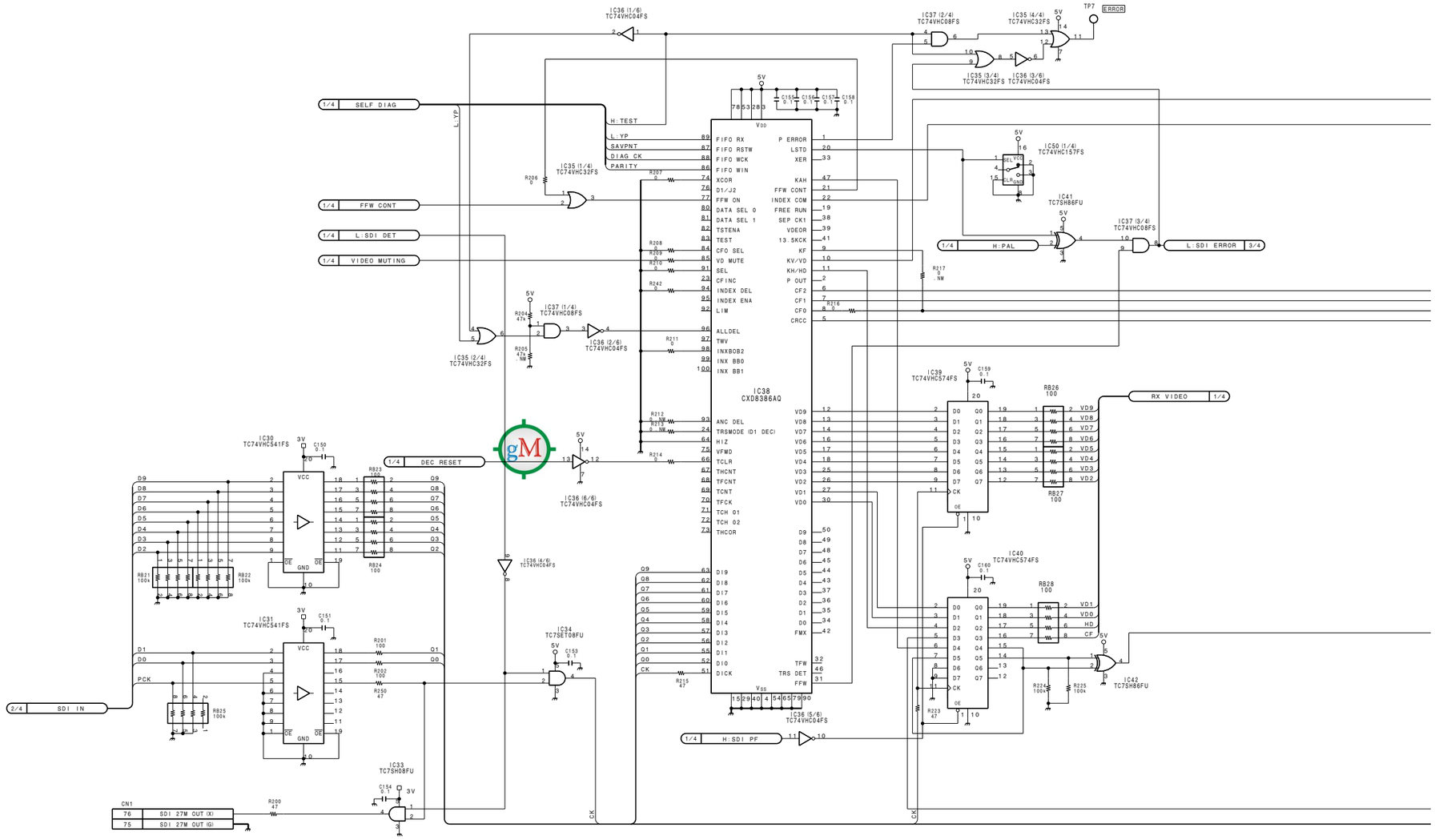




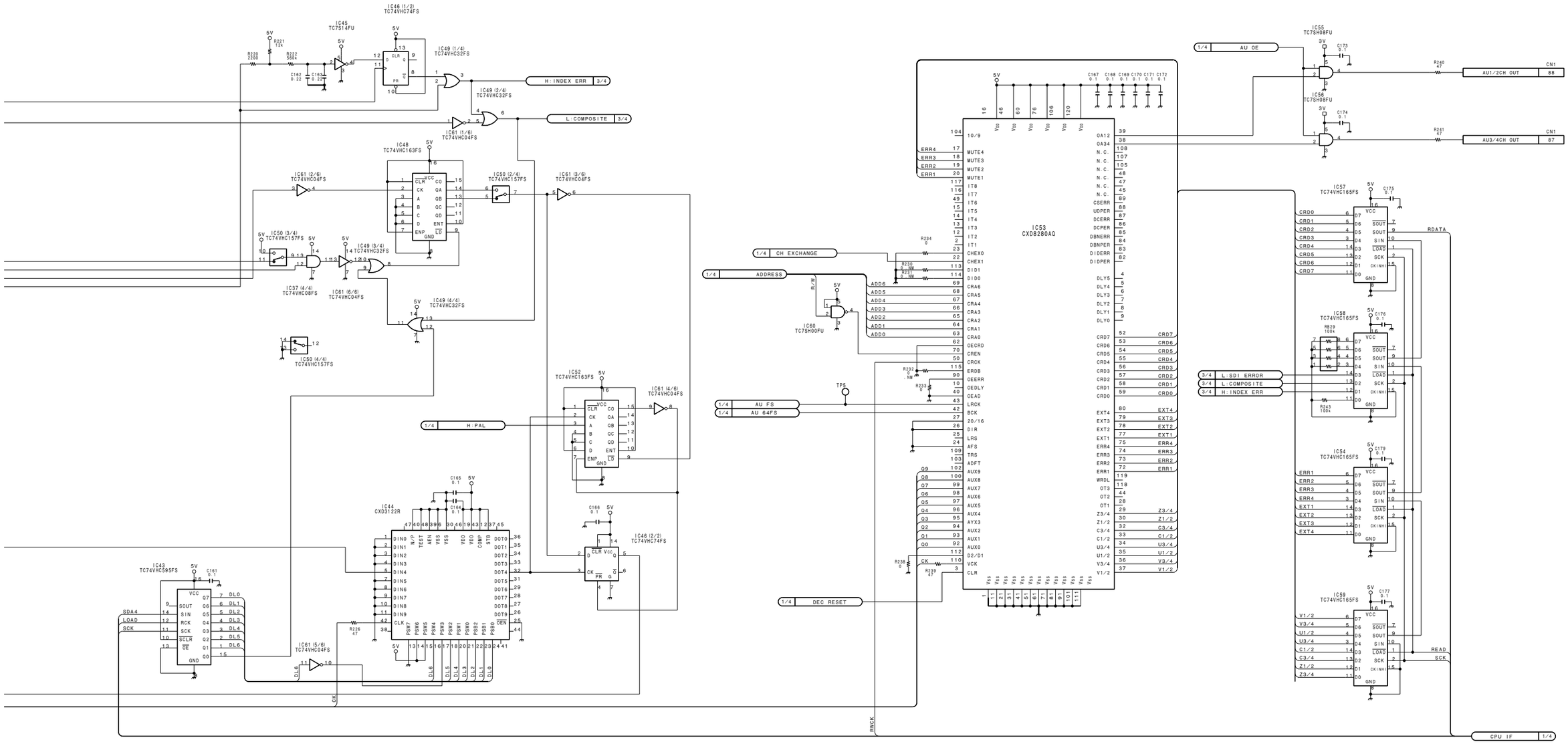
DIF-67 (2/4)
BOARD NO. 1-668-762-11
LOT NO. 709-
B-¥CA702-DIF67-11@

DIF-67 (3/4)

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



6-22



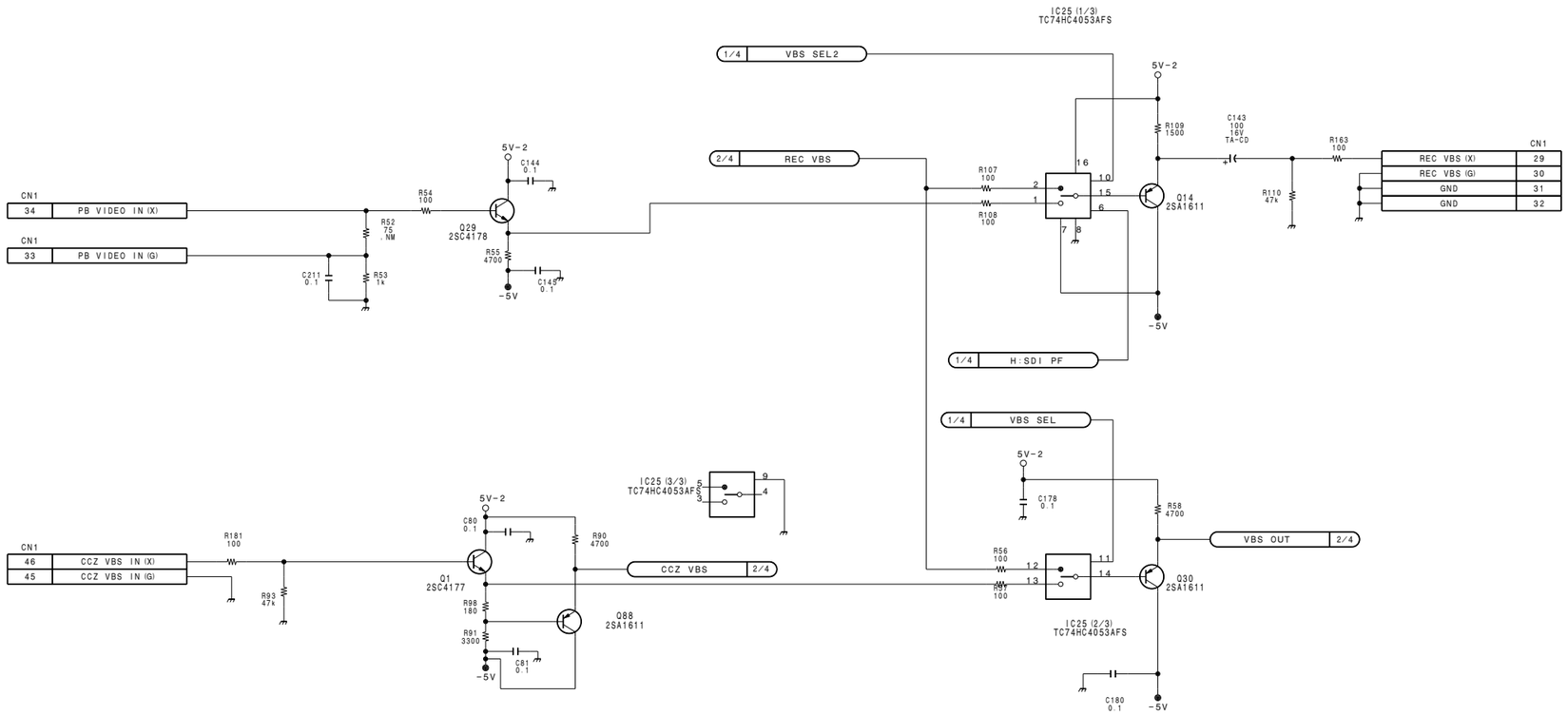
DIF-67 (3/4)

BOARD NO. 1-668-762-11
LOT NO. 709-
B-¥CA702-DIF67-11@

CA-702
CA-702P

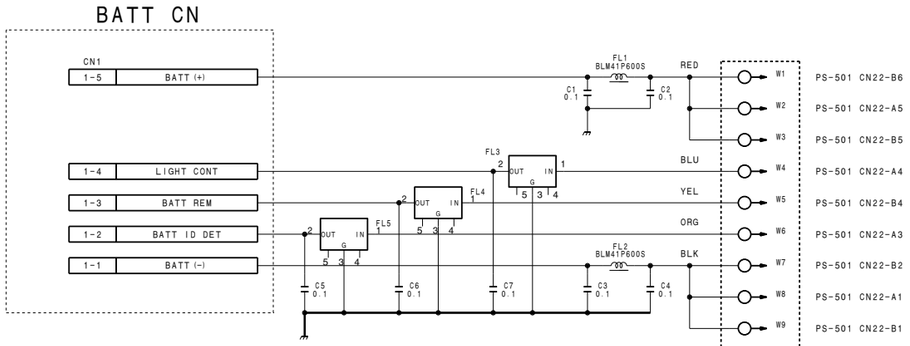
6-23 6-23

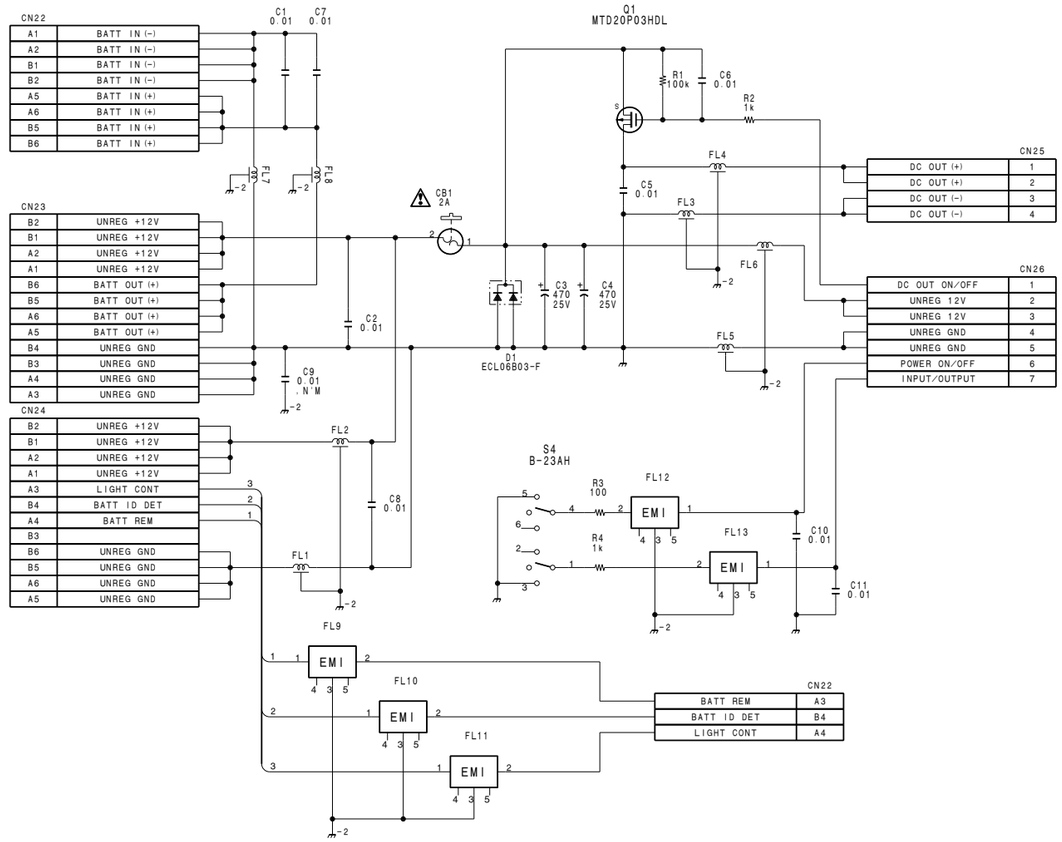
CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



DIF-67 (4/4)
BOARD NO. 1-668-762-11
LOT NO. 709-
B-¥CA702-DIF67-11@

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



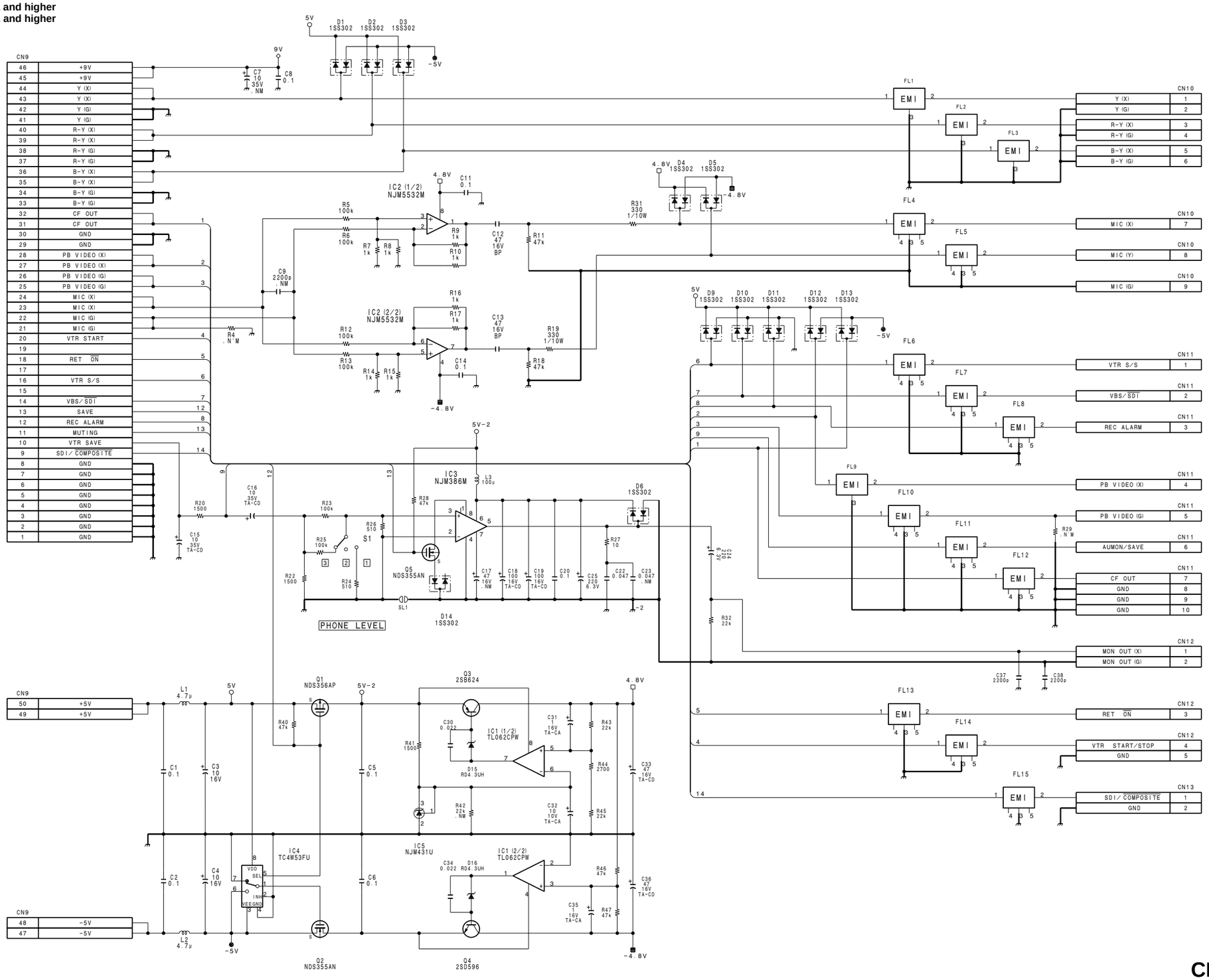


上記以外のコネクタの接続先については，FRAME WIRING（ 6-30 ページ）を参照。
Refer to FRAME WIRING (Page 6-30) in regard to destinations of connectors other than above.

DC-96
BOARD NO. 1-668-760-11
LOT NO. 709-
B-¥CA702-DC96-11@

PS-501
BOARD NO. 1-668-758-11
LOT NO. 709-
B-¥CA702-PS501-11@

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

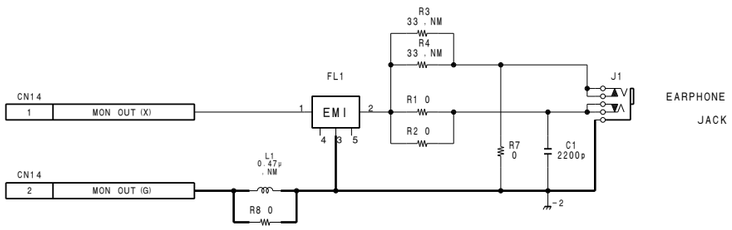


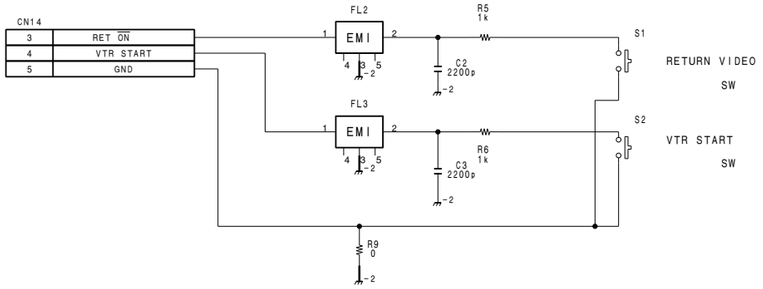
上記以外のコネクタの接続先については，FRAME WIRING（ 6-30 ページ）を参照。
Refer to FRAME WIRING (Page 6-30) in regard to destinations of connectors other than above.

CN-1528
BOARD NO. 1-668-755-11
LOT NO. 709-
B-¥CA702-CN1528-11@

http://getMANUAL.com

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher





上記以外のコネクタの接続先については，FRAME WIRING（ 6-30 ページ）を参照。
Refer to FRAME WIRING (Page 6-30) in regard to destinations of connectors other than above.

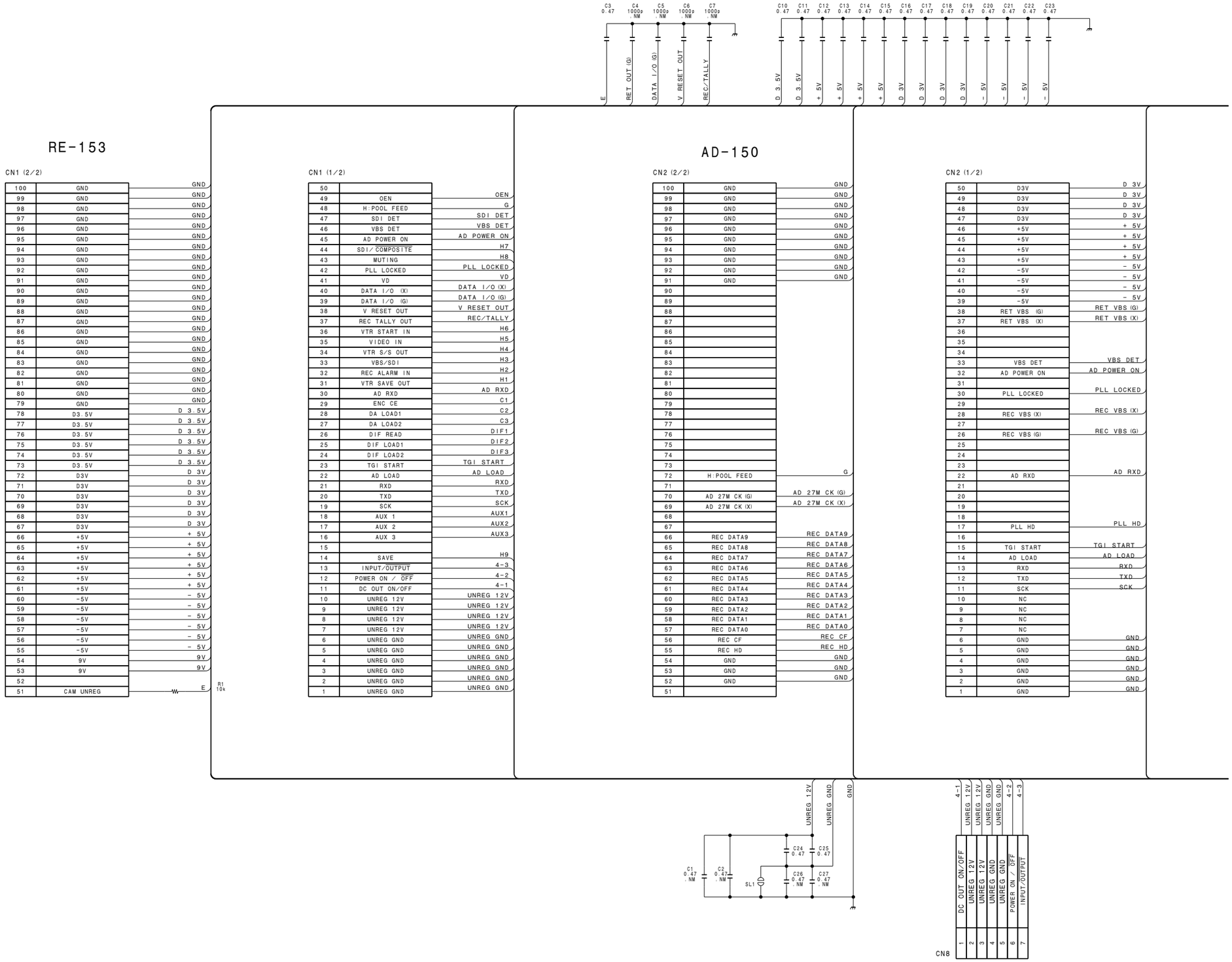
CN-1529
BOARD NO. 1-668-756-11
LOT NO. 709-
B-¥CA702-CN1529-11@

CA-702
CA-702P

A B C D E F G H

1 2 4 5

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



CN5

1	UNREG GND	
2	UNREG GND	
3	UNREG IN	SL2
4	UNREG IN	E
5	512FS	512FS
6	64FS	64FS
7	AD DATA CH-3/-4	2-4
8	PB DATA CH-1/-2	2-3
9	PB DATA CH-3/-4	2-2
10	AD DATA CH-1/-2	2-1
11	CK (X)	CK (X)
12	CK (G)	CK (G)
13	MPX0	MPX0
14	MPX1	MPX1
15	MPX2	MPX2
16	MPX3	MPX3
17	MPX4	MPX4
18	MPX5	MPX5
19	MPX6	MPX6
20	MPX7	MPX7

CN6

1	MPX8	MPX8
2	MPX9	MPX9
3	D GND	D GND1
4	D GND	D GND1
5	FS (X)	FS (X)
6	FS (G)	FS (G)
7	CF	CF
8	SYNC IN	SYNC
9	HD IN	HD
10	VD IN	VD
11	RET VIDEO (G)	RET OUT (G)
12	RET VIDEO (X)	RET OUT (X)
13	V RESET OUT	V RESET OUT
14	REC/TALLY	REC/TALLY
15	H CONT (X)	
16	H CONT (G)	GND
17	DATA I/O (X)	DATA I/O (X)
18	DATA I/O (G)	DATA I/O (G)
19	BLKG IN	BLKG
20		

DA-130

CN3 (2/2)

100	VDATA9	MPX9
99	VDATA8	MPX8
98	VDATA7	MPX7
97	VDATA6	MPX6
96	VDATA5	MPX5
95	VDATA4	MPX4
94	VDATA3	MPX3
93	VDATA2	MPX2
92	VDATA1	MPX1
91	VDATA0	MPX0
90	27MHZ IN (X)	CK (X)
89	27MHZ IN (G)	CK (G)
88	CF	CF
87	VD	VD
86	HD	HD
85	SYNC	SYNC
84	BLKG	BLKG
83	OEN	OEN
82	D GND	D GND1
81	D GND	D GND1
80	AU1/2CH OUT	2-1
79	AU3/4CH OUT	2-4
78	AU1/2CH IN	2-3
77	AU3/4CH IN	2-2
76	512FS	512FS
75	64FS	64FS
74	FS (X)	FS (X)
73	FS (G)	FS (G)
72	H:POOL FEED	G
71	128FS OUT	128FS IN
70	AD 27M CK (X)	AD 27M CK (X)
69	AD 27M CK (G)	AD 27M CK (G)
68	SDI 27MIN (G)	SDI 27M OUT (G)
67	SDI 27MIN (X)	SDI 27M OUT (X)
66	REC DATA9	REC DATA9
65	REC DATA8	REC DATA8
64	REC DATA7	REC DATA7
63	REC DATA6	REC DATA6
62	REC DATA5	REC DATA5
61	REC DATA4	REC DATA4
60	REC DATA3	REC DATA3
59	REC DATA2	REC DATA2
58	REC DATA1	REC DATA1
57	REC DATA0	REC DATA0
56	REC CF	REC CF
55	REC HD	REC HD
54	GND	GND
53	27MHZ OUT (G)	27MHZ (G)
52	27MHZ OUT (X)	27MHZ (X)
51		

CN3 (1/2)

50	D3V	D 3V
49	D3V	D 3V
48	D3V	D 3V
47	D3V	D 3V
46	+5V	+ 5V
45	+5V	+ 5V
44	+5V	+ 5V
43	+5V	+ 5V
42	-5V	- 5V
41	-5V	- 5V
40	RET VBS (X)	RET VBS (X)
39	RET VBS (G)	RET VBS (G)
38	CCZ VBS (G)	CCZ VBS (G)
37	CCZ VBS (X)	CCZ VBS (X)
36	GND	GND
35	GND	GND
34	Y OUT (X)	1-1
33	Y OUT (G)	GND
32	R-Y OUT (X)	1-3
31	R-Y OUT (G)	GND
30	B-Y OUT (X)	1-5
29	B-Y OUT (G)	GND
28	CF OUT	1-11
27	GND	GND
26	PB VIDEO IN (G)	1-8
25	PB VIDEO IN (X)	1-7
24	GND	GND
23	MIC OUT (G)	1-10
22	MIC OUT (X)	1-9
21	GND	GND
20	RET OUT (G)	RET OUT (G)
19	RET OUT (X)	RET OUT (X)
18	PLL HD	PLL HD
17	AUX 3	AUX3
16	AUX 1	AUX1
15	ENC CE	C1
14	DA LOAD1	C2
13	DA LOAD2	C3
12	TXD	TXD
11	SCK	SCK
10	NC	
9	NC	
8	NC	
7	NC	
6	GND	GND
5	GND	GND
4	GND	GND
3	GND	GND
2	GND	GND
1	GND	GND

DIF-67

CN4 (2/2)

100	GND	GND
99	GND	GND
98	GND	GND
97	GND	GND
96	SYNC	SYNC
95	VD	VD
94	D 3.5V	
93	D 3.5V	
92	D 3.5V	
91	D 3.5V	D 3.5V
90	D GND	D GND1
89	D GND	D GND1
88	AU1/2CH OUT	2-1
87	AU3/4CH OUT	2-4
86	AU1/2CH IN	2-3
85	AU3/4CH IN	2-2
84		
83	64 FS	64FS
82	FS (X)	FS (X)
81	FS (G)	FS (G)
80	128FS IN	128FS IN
79	H:POOL FEED	G
78		
77		
76	SDI 27M OUT (X)	SDI 27M OUT (X)
75	SDI 27M OUT (G)	SDI 27M OUT (G)
74	REC DATA9	REC DATA9
73	REC DATA8	REC DATA8
72	REC DATA7	REC DATA7
71	REC DATA6	REC DATA6
70	REC DATA5	REC DATA5
69	REC DATA4	REC DATA4
68	REC DATA3	REC DATA3
67	REC DATA2	REC DATA2
66	REC DATA1	REC DATA1
65	REC DATA0	REC DATA0
64	REC CF	REC CF
63	REC HD	REC HD
62	GND	GND
61	GND	GND
60	27MHZ IN (G)	27MHZ (G)
59	27MHZ IN (X)	27MHZ (X)
58	D3V	D 3V
57	D3V	D 3V
56	D3V	D 3V
55	D3V	D 3V
54	+5V	+ 5V
53	+5V	+ 5V
52	+5V	+ 5V
51	+5V	+ 5V

C28 1000p : NM

C8 1000P : NM

C9 1000p : NM

CN4 (1/2)

50	-5V	- 5V
49	-5V	- 5V
48		
47		
46	CCZ VBS IN (X)	CCZ VBS (X)
45	CCZ VBS IN (G)	CCZ VBS (G)
44		
43		
42		
41	SDI DET	SDI DET
40		
39		
38		
37		
36		
35		
34	PB VIDEO IN (X)	1-7
33	PB VIDEO IN (G)	1-8
32	GND	GND
31	GND	GND
30	REC VBS (G)	REC VBS (G)
29	REC VBS (X)	REC VBS (X)
28		
27		
26		
25	AUX2	AUX2
24	DIF READ	DIF1
23	DIF LOAD1	DIF2
22	DIF LOAD2	DIF3
21	RXD	RXD
20	TXD	TXD
19	SCK	SCK
18	NC	
17	NC	
16	GND	GND
15	GND	GND
14	GND	GND
13	GND	GND
12	GND	GND
11	GND	GND
10	NC	
9	NC	
8	NC	
7	NC	
6	GND	GND
5	GND	GND
4	GND	GND
3	GND	GND
2	GND	GND
1	GND	GND

CN7

1	GND	GND
2	GND	GND
3	GND	GND
4	GND	GND
5	GND	GND
6	GND	GND
7	GND	GND
8	SDI/COMPOSITE	H7
9	VTR SAVE	H1
10	MUTING	H8
11	REC ALARM	H2
12	SAVE	H9
13	VBS/SDI (CCZ)	H3
14	VTR S/S	H4
15	RET ON	H5
16	VTR START	H6
17	MIC (G)	1-10
18	MIC (X)	1-10
19	MIC (X)	1-9
20	PB VIDEO (G)	1-9
21	PB VIDEO (G)	1-8
22	PB VIDEO (X)	1-8
23	PB VIDEO (X)	1-7
24	GND	1-7
25	GND	GND
26	CF OUT	GND
27	CF OUT	1-11
28	B-Y (G)	1-6
29	B-Y (X)	1-6
30	B-Y (X)	1-5
31	R-Y (G)	1-5
32	R-Y (X)	1-4
33	R-Y (X)	1-4
34	Y (G)	1-3
35	Y (X)	1-3
36	Y (X)	1-2
37	9V	1-2
38	9V	1-1
39	9V	1-1
40	9V	9V
41	-5V	- 5V
42	-5V	- 5V
43	+5V	+ 5V
44	+5V	+ 5V
45	+5V	+ 5V
46	+5V	+ 5V
47	+5V	+ 5V
48	+5V	+ 5V
49	+5V	+ 5V
50	+5V	+ 5V

MB-766
BOARD NO. 1-668-754-11
LOT NO. 709-
B-¥CA702-MB766-11@

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

RE-153

CN1

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52
GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	D3.5V	D3.5V	D3.5V	D3.5V	D3.5V	D3V	D3V	D3V	D3V	D3V	D3V	+5V	+5V	+5V	+5V	+5V	+5V	-5V	-5V	-5V	-5V	-5V	9V	9V	CAM UNREG

51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
GEN	H POOL FEED	SDI DET	VBS DET	AD POWER ON	SDI / ZCOMPOSITE	MUTING	PLL LOCKED	VD	DATA I/O (X)	DATA I/O (G)	V RESET OUT	REC TALLY OUT	VTR S/S IN	VTR REC IN	VTR S/S OUT	VBS/SDI	REC ALARM IN	VTR SAVE OUT	AD RXD	ENC CE	DA LOAD1	DA LOAD2	DIF LOAD1	DIF LOAD2	TGI START	AD LOAD	RXD	TXD	SCK	AUX 1	AUX 2	AUX 3	SAVE	INPUT/OUTPUT	POWER ON /OFF	DC OUT ON/OFF	UNREG 12V	UNREG 12V	UNREG 12V	UNREG 12V	UNREG GND	UNREG GND	UNREG GND	UNREG GND	UNREG GND	UNREG GND	UNREG GND

CN1

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52
GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	D3.5V	D3.5V	D3.5V	D3.5V	D3.5V	D3V	D3V	D3V	D3V	D3V	D3V	+5V	+5V	+5V	+5V	+5V	+5V	-5V	-5V	-5V	-5V	-5V	9V	9V	CAM UNREG

51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
GEN	H POOL FEED	SDI DET	VBS DET	AD POWER ON	SDI / ZCOMPOSITE	MUTING	PLL LOCKED	VD	DATA I/O (X)	DATA I/O (G)	V RESET OUT	REC TALLY OUT	VTR S/S IN	VTR REC IN	VTR S/S OUT	VBS/SDI	REC ALARM IN	VTR SAVE OUT	AD RXD	ENC CE	DA LOAD1	DA LOAD2	DIF LOAD1	DIF LOAD2	TGI START	AD LOAD	RXD	TXD	SCK	AUX 1	AUX 2	AUX 3	SAVE	INPUT/OUTPUT	POWER ON /OFF	DC OUT ON/OFF	UNREG 12V	UNREG 12V	UNREG 12V	UNREG 12V	UNREG GND	UNREG GND	UNREG GND	UNREG GND	UNREG GND	UNREG GND	UNREG GND

CN-1176 HN-252

CN1

21	UNREG GND
22	UNREG GND
1	UNREG IN
2	UNREG IN
3	512FS
23	64FS
4	AD DATA CH-3/-4
25	PB DATA CH-1/-2
5	PB DATA CH-3/-4
24	AD DATA CH-1/-2
6	CK (X)
26	CK (G)
7	MPX0
27	MPX1
8	MPX2
28	MPX3
9	MPX4
29	MPX5
10	MPX6
30	MPX7
11	MPX8
31	MPX9
12	D GND
32	D GND
13	FS (X)
33	FS (G)
34	CF
14	SYNC IN
15	HD IN
35	VD IN
36	RET VIDEO (G)
16	RET VIDEO (X)
17	V RESET OUT
37	REC/TALLY
38	H CONT (X)
18	H CONT (G)
19	DATA I/O (X)
39	DATA I/O (G)
40	BLKG IN
20	

40P

(TO CAMERA)

CN29

1	UNREG GND
2	UNREG GND
3	UNREG IN
4	UNREG IN
5	512FS
6	64FS
7	AD DATA CH-3/-4
8	PB DATA CH-1/-2
9	PB DATA CH-3/-4
10	AD DATA CH-1/-2
11	CK (X)
12	CK (G)
13	MPX0
14	MPX1
15	MPX2
16	MPX3
17	MPX4
18	MPX5
19	MPX6
20	MPX7

CN30

1	MPX8
2	MPX9
3	D GND
4	D GND
5	FS (X)
6	FS (G)
7	CF
8	SYNC IN
9	HD IN
10	VD IN
11	RET VIDEO (G)
12	RET VIDEO (X)
13	V RESET OUT
14	REC/TALLY
15	H CONT (X)
16	H CONT (G)
17	DATA I/O (X)
18	DATA I/O (G)
19	BLKG IN
20	

CN27

1	UNREG GND
2	UNREG GND
3	UNREG IN
4	UNREG IN
5	512FS
6	64FS
7	AD DATA CH-3/-4
8	PB DATA CH-1/-2
9	PB DATA CH-3/-4
10	AD DATA CH-1/-2
11	CK (X)
12	CK (G)
13	MPX0
14	MPX1
15	MPX2
16	MPX3
17	MPX4
18	MPX5
19	MPX6
20	MPX7

CN28

1	MPX8
2	MPX9
3	D GND
4	D GND
5	FS (X)
6	FS (G)
7	CF
8	SYNC IN
9	HD IN
10	VD IN
11	RET VIDEO (G)
12	RET VIDEO (X)
13	V RESET OUT
14	REC/TALLY
15	H CONT (X)
16	H CONT (G)
17	DATA I/O (X)
18	DATA I/O (G)
19	BLKG IN
20	

CN5

1	UNREG GND
2	UNREG GND
3	UNREG IN
4	UNREG IN
5	512FS
6	64FS
7	AD DATA CH-3/-4
8	PB DATA CH-1/-2
9	PB DATA CH-3/-4
10	AD DATA CH-1/-2
11	CK (X)
12	CK (G)
13	MPX0
14	MPX1
15	MPX2
16	MPX3
17	MPX4
18	MPX5
19	MPX6
20	MPX7

CN6

1	MPX8
2	MPX9
3	D GND
4	D GND
5	FS (X)
6	FS (G)
7	CF
8	SYNC IN
9	HD IN
10	VD IN
11	RET VIDEO (G)
12	RET VIDEO (X)
13	V RESET OUT
14	REC/TALLY
15	H CONT (X)
16	H CONT (G)
17	DATA I/O (X)
18	DATA I/O (G)
19	BLKG IN
20	

MB-766

CN2

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52
GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	REC DATA9	REC DATA8	REC DATA7	REC DATA6	REC DATA5	REC DATA4	REC DATA3	REC DATA2	REC DATA1	REC DATA0	REC CF	REC HD	GND	GND	GND	D3V	D3V	D3V	D3V	+5V	+5V	-5V	-5V	-5V	-5V	-5V

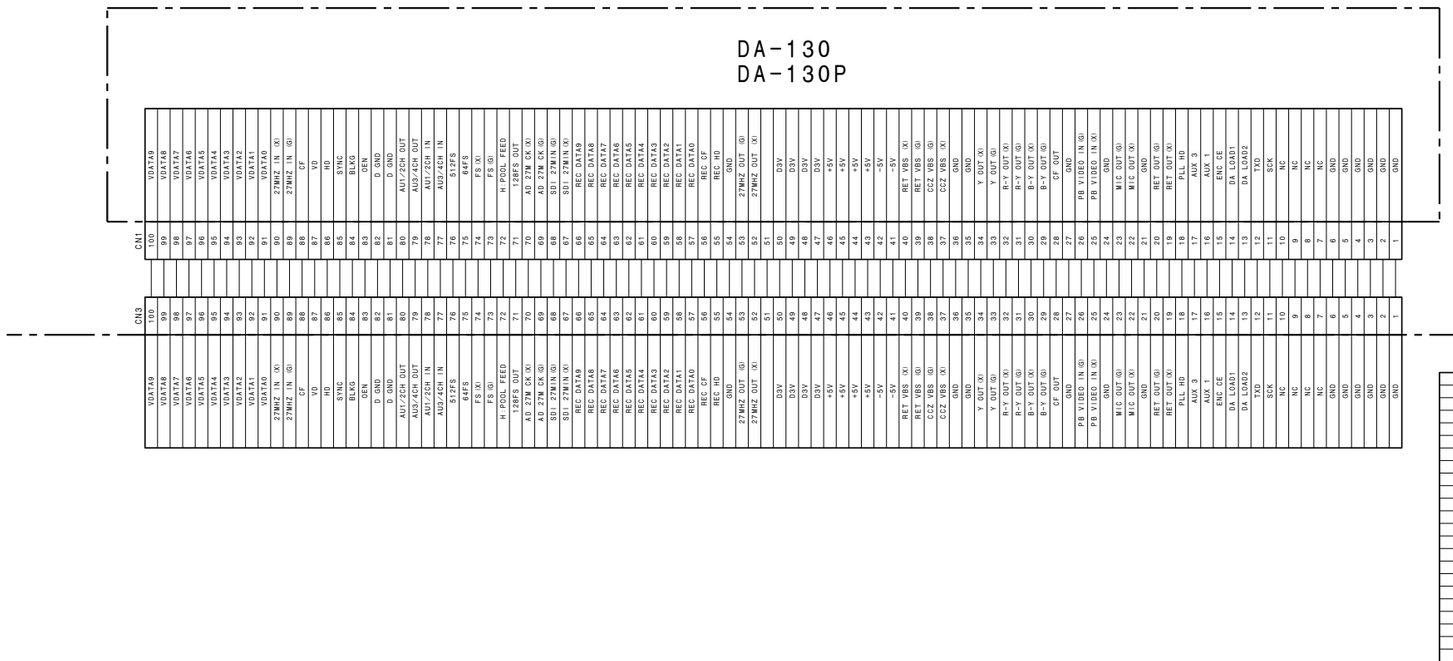
51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
H POOL FEED	AD 27M CK (G)	AD 27M CK (X)	RET VBS (G)	RET VBS (X)	VBS DET	AD POWER ON	PLL LOCKED	REC VBS (X)	REC VBS (G)	AD RXD	PLL HD	TGI START	AD LOAD	RXD	TXD	SCK	NC	NC	NC	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND

CN1

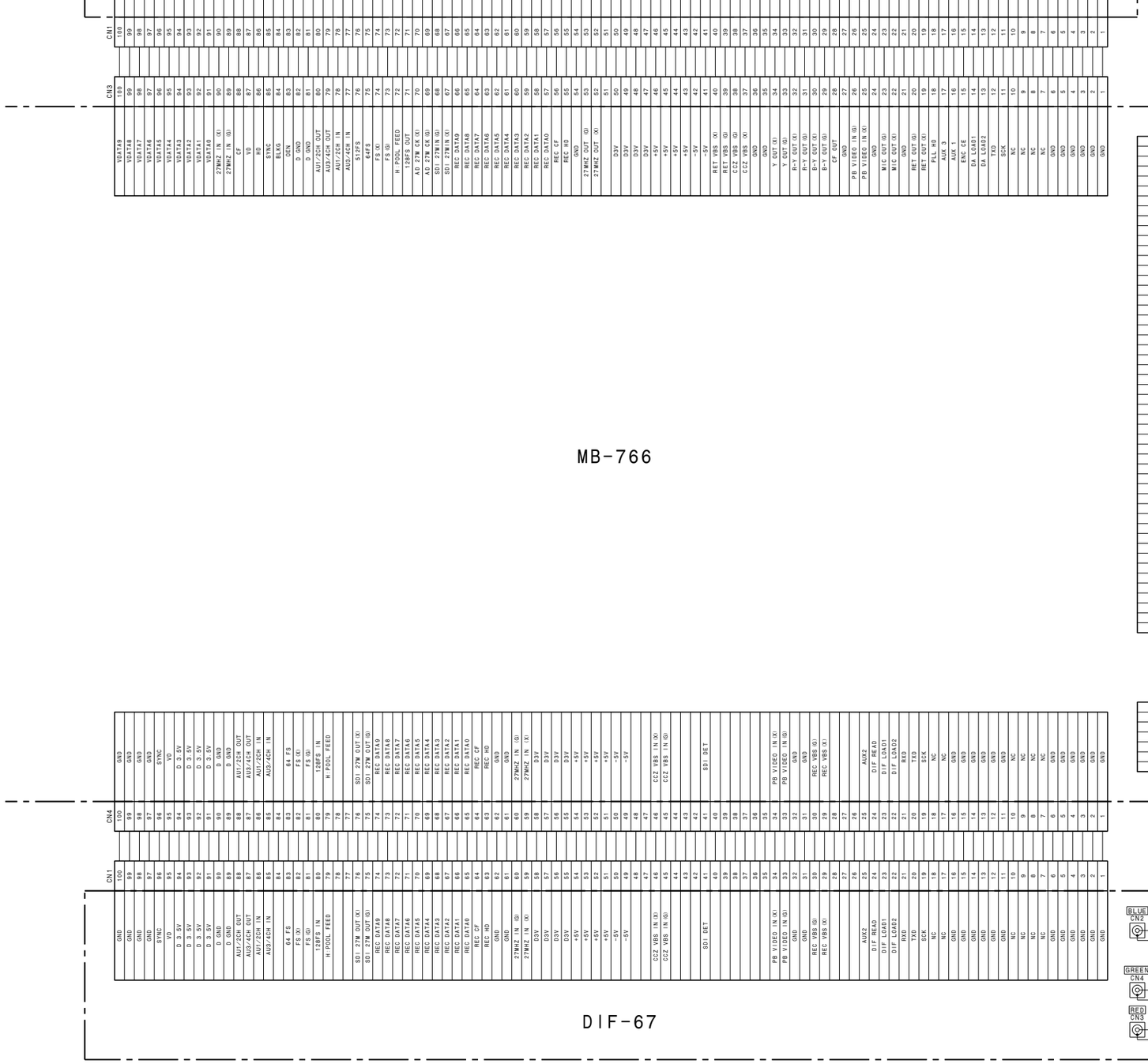
100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52
GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	REC DATA9	REC DATA8	REC DATA7	REC DATA6	REC DATA5	REC DATA4	REC DATA3	REC DATA2	REC DATA1	REC DATA0	REC CF	REC HD	GND	GND	GND	D3V	D3V	D3V	D3V	+5V	+5V	-5V	-5V	-5V	-5V	-5V

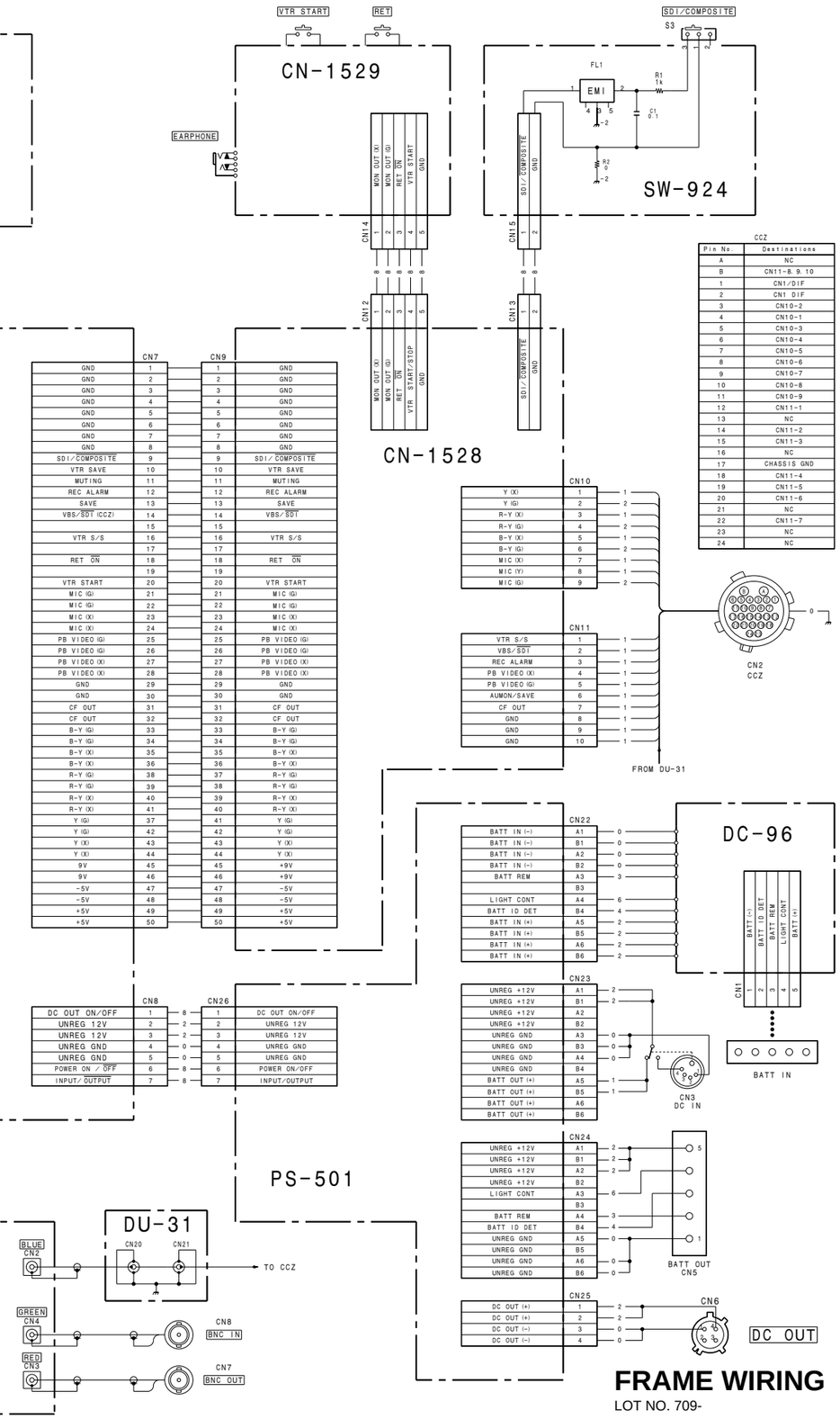
51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
H POOL FEED	AD 27M CK (G)	AD 27M CK (X)	RET VBS (G)	RET VBS (X)	VBS DET	AD POWER ON	PLL LOCKED	REC VBS (X)	REC VBS (G)	AD RXD	PLL HD	TGI START	AD LOAD	RXD	TXD	SCK	NC	NC	NC	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND

AD-150
AD-150P



MB-766



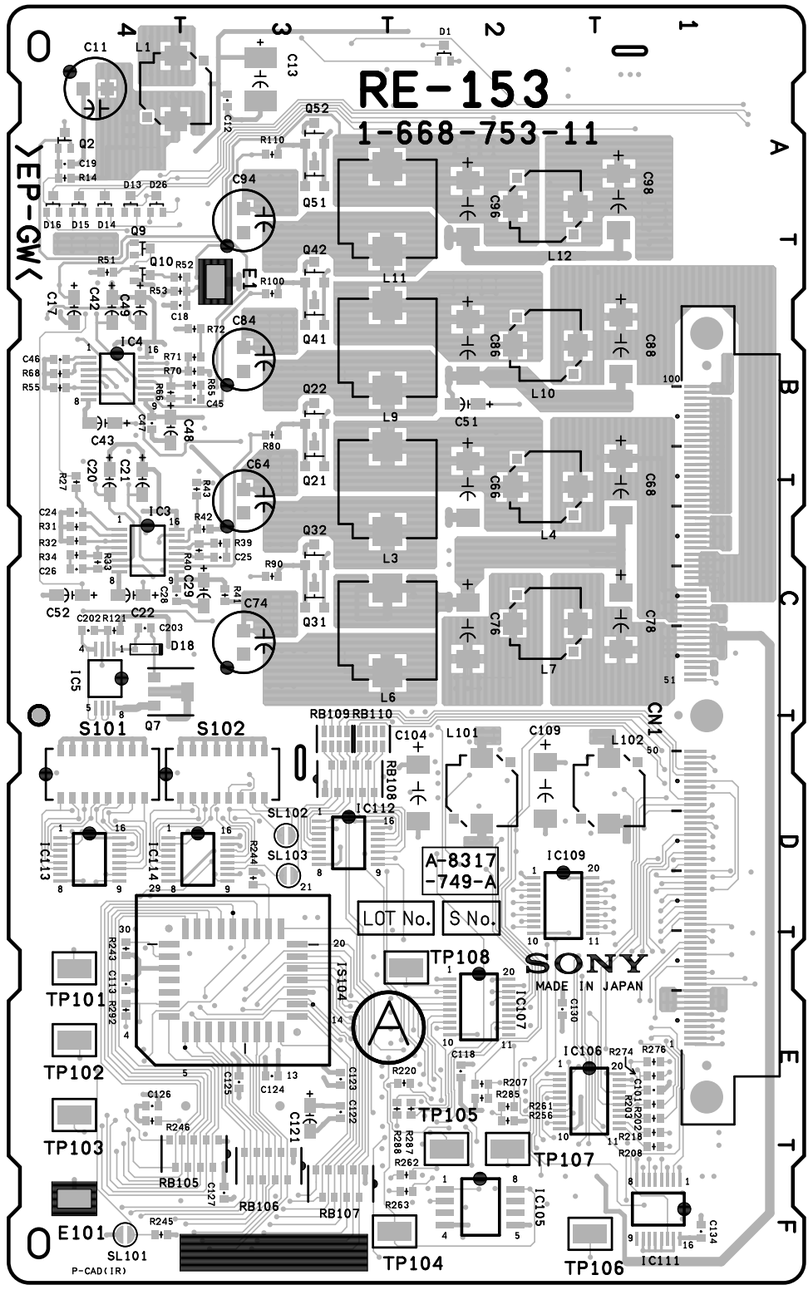


FRAME WIRING
LOT NO. 709-

Section 7
Board Layouts

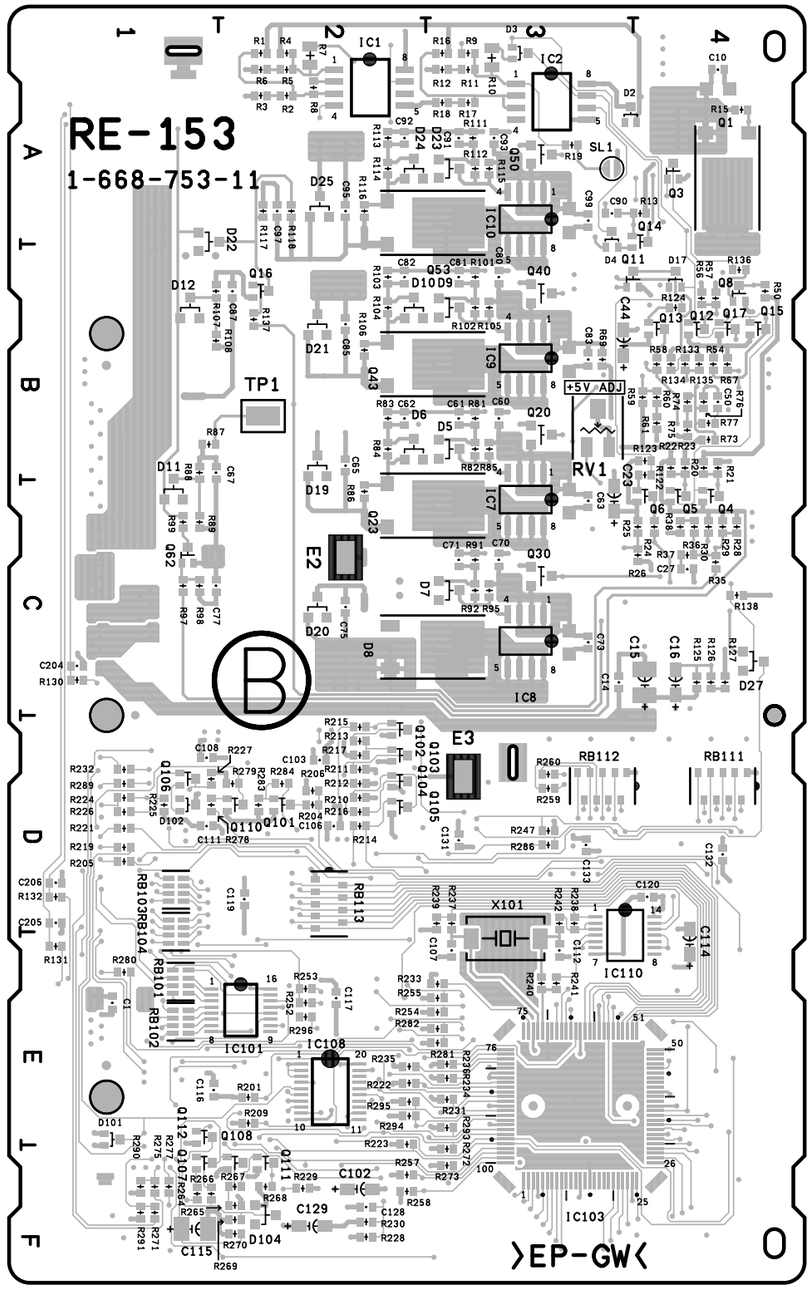
RE-153 (1-668-753-11)

C1	* E1	C202	C4	Q23	* C3
C10	* A4	C203	C4	Q30	* C3
C11	A4	C204	* C1	Q31	C3
C12	A3	C205	* D1	Q32	C3
C13	A3	C206	* D1	Q40	* B3
C14	* C3			Q41	B3
C15	* C4	CN1	C1	Q42	B3
C16	* C4			Q43	* B3
C17	B4	D1	A2	Q50	* A3
C18	B4	D2	* A3	Q51	A3
C19	A4	D3	* A3	Q52	A3
C20	C4	D4	* A3	Q53	* A3
C21	C4	D5	* B3	Q62	* C1
C22	C4	D6	* B2	Q101	* D2
C23	* C3	D7	* C3	Q102	* D2
C24	C4	D8	* C3	Q103	* D2
C25	C3	D9	* B3	Q104	* D2
C26	C4	D10	* B2	Q105	* D2
C27	* C4	D11	* C1	Q106	* D1
C28	C4	D12	* B1	Q107	* F1
C29	C3	D13	A4	Q108	* F2
C42	B4	D14	A4	Q110	* D2
C43	B4	D15	A4	Q111	* F2
C44	* B3	D16	A4	Q112	* E1
C45	B3	D17	* B4		
C46	B4	D18	C4	R1	* A2
C47	B4	D19	* B2	R2	* A2
C48	B4	D20	* C2	R3	* A2
C49	B4	D21	* B2	R4	* A2
C50	* B4	D22	* B1	R5	* A2
C51	B2	D23	* A3	R6	* A2
C52	C4	D24	* A2	R7	* A2
C60	* B3	D25	* A2	R8	* A2
C61	* B3	D26	A4	R9	* A3
C62	* B2	D27	* C4	R10	* A3
C63	* C3	D101	* E1	R11	* A3
C64	C3	D102	* D1	R12	* A3
C65	* B2	D104	* F2	R13	* A4
C66	C2			R14	A4
C67	* B1	E1	B3	R15	* A4
C68	C1	E2	* C2	R16	* A3
C70	* C3	E3	* D3	R17	* A3
C71	* C3	E101	F4	R18	* A3
C73	* C3			R19	* A3
C74	C3	IC1	* A2	R20	* B4
C75	* C2	IC2	* A3	R21	* B4
C76	C2	IC3	C4	R22	* B4
C77	* C1	IC4	B4	R23	* B4
C78	C1	IC5	C4	R24	* C4
C80	* B3	IC7	* C3	R25	* C4
C81	* B3	IC8	* C3	R26	* C4
C82	* B2	IC9	* B3	R27	C4
C83	* B3	IC10	* A3	R28	* C4
C84	B3	IC101	* E2	R29	* C4
C85	* B2	IC103	* E3	R30	* C4
C86	B2	IC105	F2	R31	C4
C87	* B2	IC106	E2	R32	C4
C88	B1	IC107	E2	R33	C4
C90	* A3	IC108	* E2	R34	C4
C91	* A3	IC109	D2	R35	* C4
C92	* A2	IC110	* E3	R36	* C4
C93	* A3	IC111	F1	R37	* C4
C94	A3	IC112	D3	R38	* C4
C95	* A2	IC113	D4	R39	C3
C96	A2	IC114	D3	R40	C3
C97	* A2			R41	C3
C98	A1	IS104	E3	R42	C3
C99	* A3			R43	C3
C101	E1	L1	A4	R50	* B4
C102	* F2	L3	C3	R51	B4
C103	* D2	L4	C2	R52	B4
C104	D2	L6	C3	R53	B4
C106	* D2	L7	C2	R54	* B4
C107	* E3	L9	B3	R55	B4
C108	* D1	L10	B2	R56	* B4
C109	D2	L11	A3	R57	* B4
C111	* D1	L12	A2	R58	* B4
C112	* E3	L101	D2	R59	* B4
C113	E4	L102	D1	R60	* B4
C114	* E4			R61	* B4
C115	* F1	Q1	* A4	R65	B3
C116	* E1	Q2	A4	R66	B4
C117	* E2	Q3	* A4	R67	* B4
C118	E2	Q4	* C4	R68	B4
C119	* D2	Q5	* C4	R69	* B3
C120	* D4	Q6	* C4	R70	B3
C121	E3	Q7	C4	R71	B3
C122	E3	Q8	* B4	R72	B3
C123	E3	Q9	B4	R73	* B4
C124	E3	Q10	B4	R74	* B4
C125	E3	Q11	* B4	R75	* B4
C126	E4	Q12	* B4	R76	* B4
C127	F3	Q13	* B4	R77	* B4
C128	* F2	Q14	* B4	R80	B3
C129	* F2	Q15	* B4	R81	* B3
C130	E2	Q16	* B2	R82	* B3
C131	* D3	Q17	* B4	R83	* B2
C132	* D4	Q20	* B3	R84	* B2
C133	* D3	Q21	B3	R85	* B3
C134	F1	Q22	B3	R86	* C2



CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

RE-153 - A SIDE -
1-668-753-11

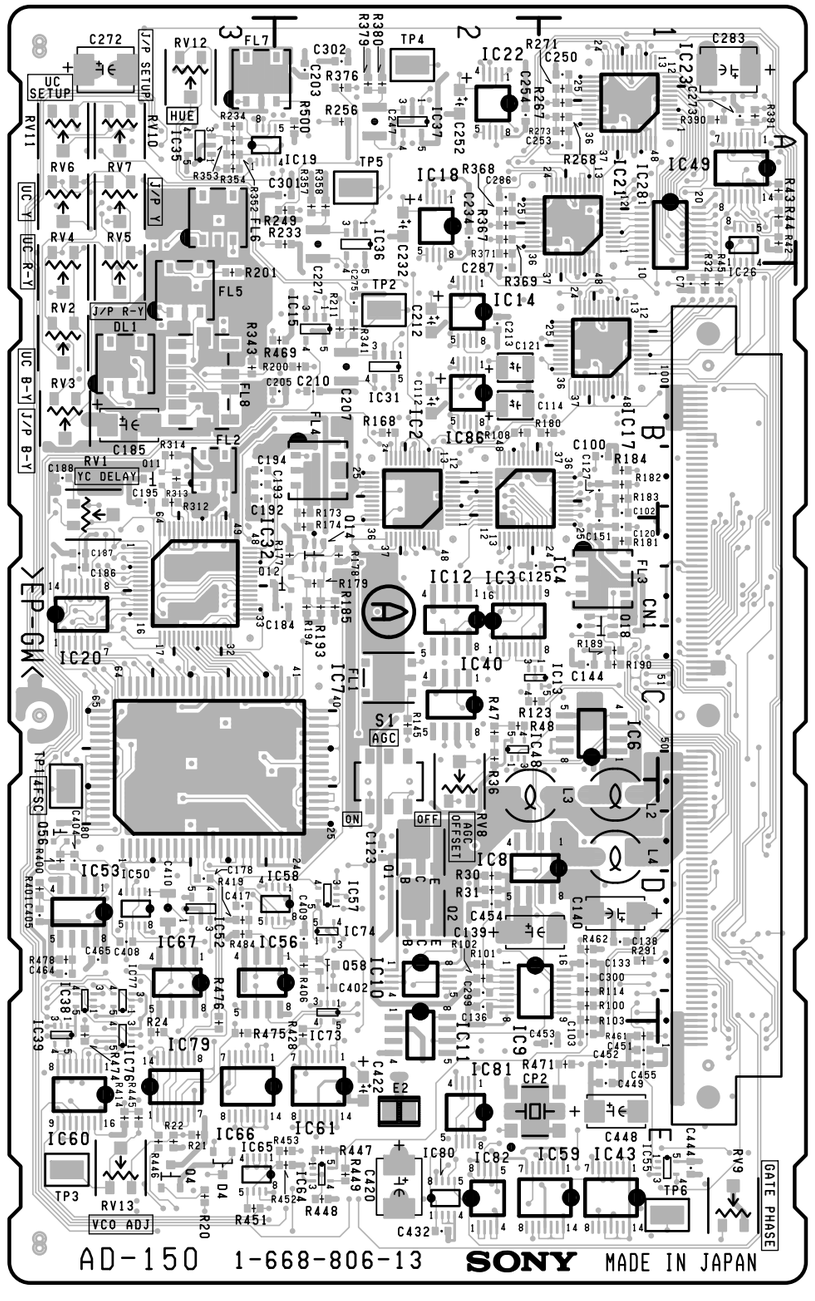


RE-153 - B SIDE -
1-668-753-11

R87	* B1	R261	E2
R88	* B1	R262	F2
R89	* C1	R263	F2
R90	C3	R264	* F1
R91	* C3	R265	* F2
R92	* C3	R266	* F1
R95	* C3	R267	* F2
R97	* C1	R268	* F2
R98	* C1	R269	* F2
R99	* C1	R270	* F2
R100	B3	R271	* F1
R101	* B3	R272	* F3
R102	* B3	R273	* F3
R103	* B2	R274	E1
R104	* B2	R275	* F1
R105	* B3	R276	E1
R106	* B2	R277	* F1
R107	* B1	R278	* D1
R108	* B1	R279	* D2
R110	A3	R280	* E1
R111	* A3	R281	* E3
R112	* A3	R282	* E3
R113	* A2	R283	* D2
R114	* A2	R284	* D2
R115	* A3	R285	E2
R116	* A2	R286	* D3
R117	* A2	R287	E2
R118	* A2	R288	E2
R121	C4	R289	* D1
R122	* B4	R290	* F1
R123	* B4	R291	* F1
R124	* B4	R292	E4
R125	* C4	R293	* E3
R126	* C4	R294	* E2
R127	* C4	R295	* E2
R130	* C1	R296	* E2
R131	* E1		
R132	* D1	RB101	* E1
R133	* B4	RB102	* E1
R134	* B4	RB103	* D1
R135	* B4	RB104	* D1
R136	* B4	RB105	F3
R137	* B2	RB106	F3
R138	* C4	RB107	F3
R201	* E2	RB108	D3
R202	E1	RB109	D3
R203	E1	RB110	D3
R204	* D2	RB111	* D4
R205	* D1	RB112	* D3
R206	* D2	RB113	* D2
R207	E2		
R208	F1	RV1	* B3
R209	* E2		
R210	* D2	S101	D4
R211	* D2	S102	D3
R212	* D2		
R213	* D2	TP1	* B2
R214	* D2	TP101	E4
R215	* D2	TP102	E4
R216	* D2	TP103	E4
R217	* D2	TP104	F2
R218	E1	TP105	F2
R219	* D1	TP106	F2
R220	E2	TP107	F2
R221	* D1	TP108	E2
R222	* E2		
R223	* E2	X101	* E3
R224	* D1		
R225	* D1	* : B Side	
R226	* D1		
R227	* D1		
R228	* F2		
R229	* F2		
R230	* F2		
R231	* E3		
R232	* D1		
R233	* E3		
R234	* E3		
R235	* E2		
R236	* E3		
R237	* D3		
R238	* D3		
R239	* D3		
R240	* E3		
R241	* E3		
R242	* D3		
R243	E4		
R244	D3		
R245	F4		
R246	E4		
R247	* D3		
R252	* E2		
R253	* E2		
R254	* E3		
R255	* E3		
R256	E2		
R257	* F2		
R258	* F2		
R259	* D3		
R260	* D3		

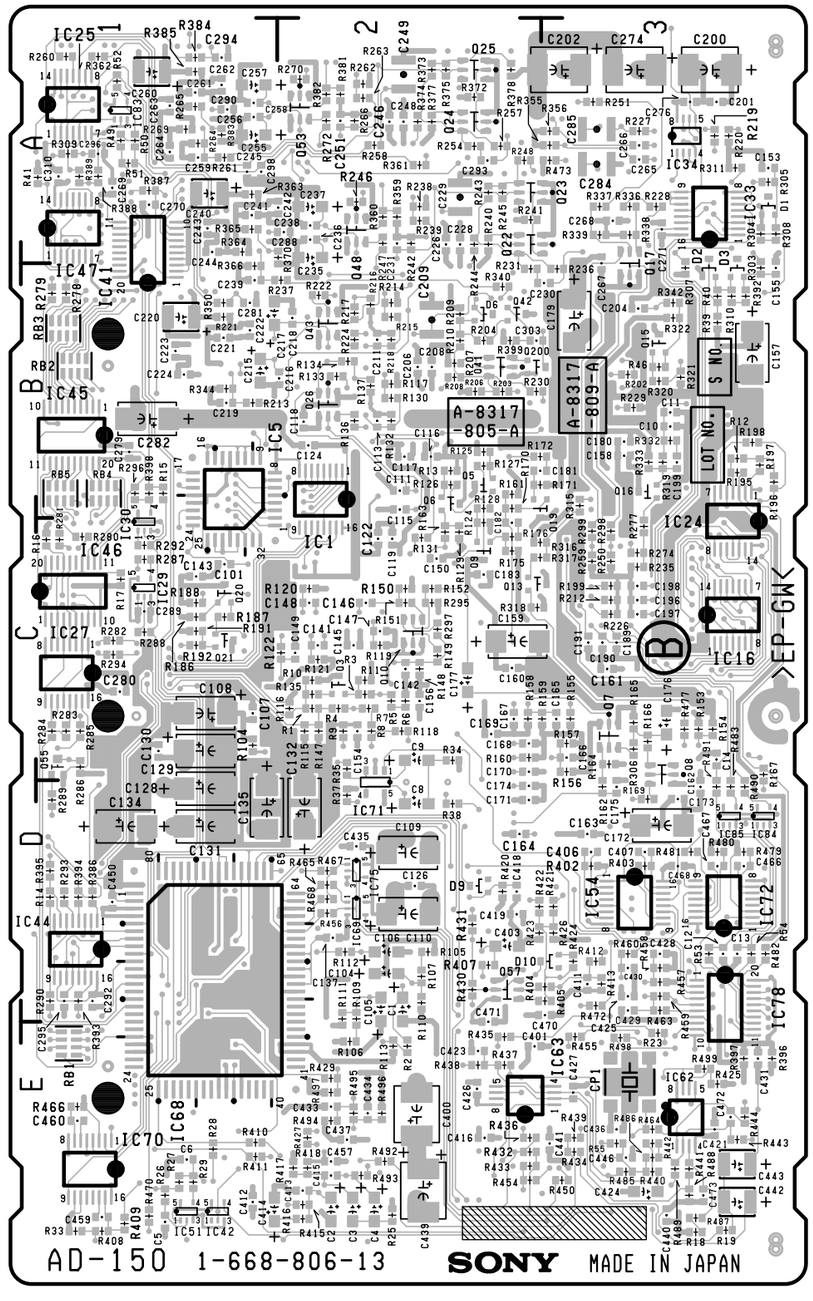
AD-150/150P (1-668-806-13)

C1	* D2	C179	* B3	C274	* A3	CN1	C1	IC67	D3	R31	D2	R175	* C2	R274	* C3	R388	* A1	R480	* D3
C2	* E2	C180	* B3	C275	B2			IC68	* D1	R32	B1	R176	* C2	R277	* C3	R389	* A1	R481	* D3
C3	* E2	C181	* B2	C276	* A3	CP1	* E3	IC69	* D2	R33	* E1	R177	C2	R278	* B1	R390	A1	R482	* D3
C4	* E2	C182	* C2	C279	* B1	CP2	E2	IC70	* E1	R34	* C2	R178	C2	R279	* B1	R391	A1	R483	* D3
C5	* E1	C183	* C2	C280	* C1			IC71	* D2	R35	* C2	R179	C2	R280	* C1	R392	* B3	R484	D3
C6	* E1	C184	C2	C281	* B1	D1	* A3	IC72	* D3	R36	C2	R180	B1	R281	* C1	R393	* D1	R485	* E3
C7	B1	C185	B3	C282	* B1	D2	* B3	IC73	D2	R37	* D2	R181	C1	R282	* C1	R394	* D1	R486	* E3
C8	* D2	C186	C3	C283	A1	D3	* B3	IC74	D2	R38	* D2	R182	B1	R283	* C1	R395	* D1	R487	* E3
C9	* C2	C187	C3	C284	* A3	D4	E3	IC75	* D2	R39	* B3	R183	B1	R284	* C1	R396	* E3	R488	* E3
C10	* B3	C188	B3	C285	* A3	D6	* B2	IC76	E3	R40	* B3	R184	B1	R285	* C1	R397	* E3	R489	* E3
C11	* B3	C189	* C3	C286	A2	D9	* D2	IC77	D3	R41	* A1	R185	C2	R286	* C1	R398	* B1	R490	* D3
C12	* D3	C190	* C3	C287	B2			IC78	* D3	R42	A1	R186	* C1	R287	* C1	R399	* B2	R491	* D3
C13	* D3	C191	* C3	C288	* A2	D10	* D3	IC79	E3	R43	A1	R187	* C1	R288	* C1	R400	D3	R492	* E2
C14	* C3	C192	B3	C289	* C1	DL1	B3	IC80	E2	R44	A1	R188	* C1	R289	* D1	R401	D3	R493	* E2
C100	B1	C193	B3	C290	* A1			IC81	E2	R45	B1	R189	C1	R290	* D1	R402	* D3	R494	* E2
C101	* C1	C194	B3	C292	* D1	E2	E2	IC82	E2	R46	* B3	R190	C1	R291	D1	R403	* D3	R495	* E2
C102	B1	C195	B3	C293	* A2			IC83	* A1	R47	C2	R191	* C1	R292	* C1	R404	* D3	R496	* E2
C103	E1	C196	* C3	C294	* A1	FL1	C2	IC84	* D3	R48	C2	R192	* C1	R293	* D1	R405	* D3	R497	* E2
C104	* D2	C197	* C3	C295	* D1	FL2	B3	IC85	* D3	R49	* A1	R193	C2	R294	* C1	R406	D2	R498	* E3
C105	* D2	C198	* C3	C296	* A1	FL3	C1	IC86	B2	R50	* A1	R194	C2	R295	* C2	R407	* D2	R499	* E3
C106	* D2	C199	* B3	C298	* A1	FL4	B2			R51	* A1	R195	* B3	R296	* B1	R408	* E1	R500	A2
C107	* C1	C200	* A3	C299	D2	FL5	B3	L2	D1	R52	* A1	R196	* B3	R297	* C2	R409	* E1		
C108	* C1	C201	* A3	C300	D1	FL6	A3	L3	D2	R53	* D3	R197	* B3	R298	* C3	R410	* E1	RB1	* E1
C109	* D2	C202	* A3	C301	A2	FL7	A3	L4	D1	R54	* D3	R198	* B3	R299	* C3	R411	* E1	RB2	* B1
C110	* D2	C203	A2	C302	A2	FL8	B3			R55	* E3	R199	* C3	R303	* B3	R412	* D3	RB3	* B1
C111	* B2	C204	* B3	C303	* B2			Q1	D2	R100	D1	R200	B2	R304	* A3	R413	* D3	RB4	* B1
C112	B2	C205	B2	C310	* A1	IC1	* B2	Q2	D2	R101	D2	R201	B3	R305	* A3	R414	E3	RB5	* B1
C113	* B2	C206	* B2	C400	* E2	IC2	B2	Q3	* C2	R102	D2	R202	* B3	R306	* C3	R415	* E2		
C114	B2	C207	B2	C401	* E2	IC3	C2	Q4	E3	R103	D1	R203	* B2	R307	* B3	R416	* E2	RV1	B3
C115	* B2	C208	* B2	C402	D2	IC4	B2	Q5	* B2	R104	* C1	R204	* B2	R308	* A3	R417	* E2	RV2	B3
C116	* B2	C209	* B2	C403	* D2	IC5	* B1	Q6	* B2	R105	* D2	R206	* B2	R309	* A1	R418	* E2	RV3	B3
C117	* B2	C210	B2	C404	D3	IC6	C1	Q7	* C3	R106	* E2	R207	* B2	R310	* B3	R419	D3	RV4	B3
C118	* B2	C211	* B2	C405	D3	IC7	C3	Q8	* C3	R107	* D2	R208	* B2	R311	* A3	R420	* D2	RV5	B3
C119	* C2	C212	B2	C406	* D3	IC8	D2	Q9	* C2	R108	B2	R209	* B2	R312	B3	R421	* D3	RV6	A3
C120	C1	C213	B2	C407	* D3	IC9	D2	Q10	* C2	R109	* D2	R210	* B2	R313	B3	R422	* D2	RV7	A3
C121	B2	C215	* B1	C408	D3	IC10	D2	Q11	B3	R110	* D2	R211	B2	R314	B3	R423	* D2	RV8	D2
C122	* C2	C216	* B2	C409	D2	IC11	D2	Q12	C2	R111	* D2	R212	* C3	R315	* B3	R424	* D3	RV9	E1
C123	D2	C217	* B1	C410	D3	IC12	C2	Q13	* C2	R112	* D2	R213	* B1	R316	* C2	R425	* E3	RV10	A3
C124	* B2	C218	* B2	C411	* D3	IC13	C2	Q14	C2	R113	* E2	R214	* B2	R317	* C2	R426	* D3	RV11	A3
C125	C2	C219	* B1	C412	* E1	IC14	B2	Q15	* B3	R114	D1	R215	* B2	R318	* C2	R427	* E2	RV12	A3
C126	* D2	C220	* B1	C413	* E2	IC15	B2	Q16	* B3	R115	* C2	R216	* B2	R319	* B3	R428	E2	RV13	E3
C127	B1	C221	* B1	C414	* E1	IC16	* C3	Q17	* B3	R116	* C2	R217	* B2	R320	* B3	R429	* E2		
C128	* D1	C222	* B1	C415	* E2	IC17	B1	Q18	C1	R117	* B2	R218	* B2	R321	* B3	R430	* D2	S1	D2
C129	* C1	C223	* B1	C416	* E2	IC18	A2	Q19	* B2	R118	* C2	R219	* A3	R322	* B3	R431	* D2		
C130	* C1	C224	* B1	C417	D3	IC19	A3	Q20	* C1	R119	* C2	R220	* A3	R332	* B3	R432	* E2	TP1	D3
C131	* D1	C226	* A2	C418	* D2	IC20	C3	Q21	* C1	R120	* C2	R221	* B1	R333	* B3	R433	* E2	TP2	B2
C132	* D2	C227	A2	C419	* D2	IC21	A1	Q22	* A2	R121	* C2	R222	* B2	R336	* A3	R434	* E3	TP3	E3
C133	D1	C228	* A2	C420	E2	IC22	A2	Q23	* A2	R122	* C2	R224	* B2	R337	* A3	R435	* E2	TP4	A2
C134	* D1	C229	* A2	C421	* E3	IC23	A1	Q24	* A2	R123	C2	R226	* C3	R338	* A3	R436	* E2	TP5	A2
C135	* D1	C230	* B3	C422	E2	IC24	* B3	Q25	* A2	R124	* C2	R227	* A3	R339	* A3	R437	* E2	TP6	E1
C136	D2	C231	* A2	C423	* E2	IC25	* A1	Q26	* B2	R125	* B2	R228	* A3	R340	* B2	R438	* E2		
C137	* D2	C232	A2	C424	* E3	IC26	A1	Q41	* B2	R126	* B2	R229	* B3	R341	B2	R439	* E3	* : B Side	
C138	D1	C234	A2	C425	* D3	IC27	* C1	Q42	* B2	R127	* B2	R230	* B2	R342	* B3	R440	* E3		
C139	D2	C235	* A2	C426	* E2	IC28	A1	Q43	* B2	R128	* B2	R231	* B2	R343	B3	R441	* E3		
C140	D1	C236	* A2	C427	* E3	IC29	* C1	Q48	* A2	R129	* C2	R233	A2	R344	* B1	R442	* E3		
C141	* C2	C237	* A2	C428	* D3	IC30	* C1	Q53	* A2	R130	* B2	R234	A3	R350	* B1	R443	* E3		
C142	* C2	C238	* A2	C429	* D3	IC31	B2	Q55	* C1	R131	* C2	R235	* C3	R352	A3	R444	* E3		
C143	* C1	C239	* B1	C430	* D3	IC32	C3	Q56	D3	R132	* B2	R236	* B3	R353	A3	R445	E3		
C144	C1	C240	* A1	C431	* E3	IC33	* A3	Q57	* D2	R133	* B2	R237	* B2	R354	A3	R446	E3		
C145	* C2	C241	* A1	C432	E2	IC34	* A3	Q58	D2	R134	* B2	R238	* A2	R355	* A3	R447	E2		
C146	* C2	C242	* A2	C433	* E2	IC35	A3	Q200	* B2	R135	* C2	R239	* A2	R356	* A3	R448	E2		
C147	* C2	C243	* A1	C434	* E2	IC36	A2			R136	* B2	R240	* A2	R357	A2	R449	E2		
C148	* C2	C244	* A1	C435	* D2	IC37	A2	R1	* C2	R137	* B2	R241	* A2	R358	A2	R450	* E3		
C149	* C2	C245	* A1	C436	* E3	IC38	D3	R2	* E2	R145	C2	R242	* A2	R359	* A2	R451	E3		
C150	* C2	C246	* A2	C437	* E2	IC39	E3	R3	* C2	R147	* C2	R243	* A2	R360	* A2	R452	E2		
C151	C1	C247	A2	C439	* E2	IC40	C2	R4	* C2	R148	* C2	R244	* A2	R361	* A2	R453	E2		
C153	* A3	C248	* A2	C440	* E3	IC41	* B1	R5	* C2	R149	* C2	R245	* A2	R362	* A1	R454	* E2		
C154	* C2	C249	* A2	C441	* E3	IC42	* E1	R6	* C2	R150	* C2	R246	* A2	R363	* A1	R455	* E3		
C155	* B3	C250	A1	C442	* E3	IC43	E1	R7	* C2	R151	* C2	R247	* A2	R364	* A1	R456	* D2		
C156	* C2	C251	* A2	C443	* E3	IC44	* D1	R8	* C2	R152	* C2	R248	* A2	R365	* A1	R457	* D3		
C157	* B3	C252	A2	C444	E1	IC45	* B1	R9	* C2	R153	* C3	R249	A2	R366	* B1	R458	* D3		
C158	* B3	C253	A1	C446	* E3	IC46	* C1	R10	* C2	R154	* C3	R250	* C3	R367	A2	R459	* D3		
C159	* C2	C254	A2	C448	E1	IC47	* A1	R11	* C2	R155	* C3	R251	* A3	R368	A2	R460	* D3		
C160	* C2	C255	* A1	C449	E1	IC48	C2	R12	* B3	R156	* C3	R254	* A2	R369	A2	R461	E1		
C161	* C3	C256	* A1	C450	* D1	IC49	A1	R13	* B2	R157	* C3	R256	A2	R370	* A2	R462	D1		
C162	* D3	C257	* A1	C451	E1	IC50	D3	R14	* D1	R158	* C2	R257	* A2	R371	A2	R463	* D3		
C163	* D3	C258	* A1	C452	E1	IC51	* E1	R15	* B1	R159	* C3	R258	* A2	R372	* A2	R464	* E3		
C164	* D2	C259	* A1	C453	E1	IC52	D3	R16	* C1	R160	* C2	R259	* C3	R373	* A2	R465	* D2		
C165	* C3	C260	* A1	C454	D2	IC53	D3	R17	* C1	R161	* B2	R260	* A1	R374	* A2	R466	* E1		
C166	* C3	C261	* A1	C455	E1	IC54	* D3	R18	* E3	R162	* D3	R261	* A1	R375	* A2	R467	* D2		
C167	* C2	C262	* A1	C457	* E2	IC55	E1	R19	* E3	R163	* C2	R262	* A2	R376	A2	R468	* D2		
C168	* C2	C263	* A1	C459	* E1	IC56	D2	R20	E3	R164	* C3	R263	* A2	R377	* A2	R469	B2		
C169	* C2	C264	* A1	C460	* E1	IC57	D2	R21	E3	R165	* C3	R264	* A1	R378	* A2	R470	* E1		
C170	* C2	C265	* A3	C464	D3	IC58	D2	R22	E3	R166	* C3	R265	* A1	R379	A2	R471	E1		
C171	* D2	C266	* A3	C465	D3	IC59	E1	R23	* E3	R167	* C3	R266	* A2	R380	A2	R472	* D3		
C172	* D3	C267	* B3	C466	* D3	IC60	E3	R24	E3	R168	B2	R267	A1	R381	* A2	R473	* A3		
C173	* D3	C268	* A3	C467	* D3	IC61	E2	R25	* E2	R169	* D3	R268	A1	R382	* A2	R474	E3		
C174	* D2	C269	* A1	C468	* D3	IC62	* E3	R26	* E1	R170	* B2	R269	* A1	R383	* A1	R475	E3		
C175	* D3	C270	* A1	C470	* D3	IC63	* E3	R27	* E1	R171	* B2	R270	* A2	R384	* A1	R476	E3		
C176	* C3	C271	* A3	C471	* E2	IC64	E2	R28	* E1	R172	* B2	R271	A1	R385	* A1	R477	* C3		
C177	* C2	C272	A3	C472	* E3	IC65	E3	R29	* E1	R173	B2	R272	* A2	R386	* D1	R478	D3		
C178	D3	C273	A1	C473	* E3	IC66	E3	R30	D2	R174	C2	R273	A1	R387	* A1	R479	* D3		



CA-702 (SY) : S/N 10171 and higher
CA-702P (SY) : S/N 40026 and higher

AD-150/150P - A SIDE -
1-668-806-13



AD-150/150P - B SIDE -
1-668-806-13

AD-150/150P (1-668-806-12)

C1	* D2	C180	* B3	C274	* A3	C472	* E3	IC64	E2	R30	D2	R178	C2	R277	* C3	R384	* A1	R476	E3
C2	* E2	C181	* B2	C275	B2	C473	* E3	IC65	E3	R31	D2	R179	C2	R278	* B1	R385	* A1	R477	* C3
C3	* E2	C182	* C2	C276	* A3			IC66	E3	R32	B1	R180	B1	R279	* B1	R386	* D1	R478	D3
C4	* E2	C183	* C2	C277	B2	CN1	C1	IC67	D3	R33	* E1	R181	C1	R280	* C1	R387	* A1	R479	* D3
C5	* E1	C184	C2	C278	* B1			IC68	* D1	R34	* C2	R182	B1	R281	* C1	R388	* A1	R480	* D3
C6	* E1	C185	B3	C279	* B1	CP1	* E3	IC69	* D2	R35	* C2	R183	B1	R282	* C1	R389	* A1	R481	* D3
C7	B1	C186	C3	C280	* C1	CP2	E2	IC70	* E1	R36	C2	R184	B1	R283	* C1	R390	A1	R482	* D3
C8	* D2	C187	C3	C281	* B1			IC71	* D2	R37	* D2	R185	C2	R284	* C1	R391	A1	R483	* D3
C9	* C2	C188	B3	C282	B2	D1	* A3	IC72	* D3	R38	* D2	R186	* C1	R285	* C1	R392	* B3	R484	D3
C10	* B3	C189	* C3	C283	A1	D2	* B3	IC73	D2	R39	* B3	R187	* C1	R286	* C1	R393	* D1	R485	* E3
C11	* B3	C190	* C3	C284	* A3	D3	* B3	IC74	D2	R40	* B3	R188	* C1	R287	* C1	R394	* D1	R486	* E3
C12	* D3	C191	* C3	C285	* A3	D4	E3	IC75	* D2	R41	* A1	R189	C1	R288	* C1	R395	* D1	R487	* E3
C13	* D3	C192	B3	C286	A2	D6	* B2	IC76	E3	R42	A1	R190	C1	R289	* D1	R396	* E3	R488	* E3
C14	* C3	C193	B3	C287	B2	D9	* D2	IC77	D3	R43	A1	R191	* C1	R290	* D1	R397	* E3	R489	* E3
C100	B1	C194	B3	C288	* A2	D10	* D3	IC78	* D3	R44	A1	R192	* C1	R291	D1	R398	* B1	R490	* D3
C101	* C1	C195	B3	C289	* C1			IC79	E3	R45	B1	R193	C2	R292	* C1	R399	* B2	R491	* D3
C102	B1	C196	* C3	C290	* A1	DL1	B3	IC80	E2	R46	* B3	R194	C2	R293	* D1	R400	D3	R492	* E2
C103	E1	C197	* C3	C292	* D1			IC81	E2	R47	C2	R195	* B3	R294	* C1	R401	D3	R493	* E2
C104	* D2	C198	* C3	C293	* A2	E2	E2	IC82	E2	R48	C2	R196	* B3	R295	* C2	R402	* D3	R494	* E2
C105	* D2	C199	* B3	C294	* A1			IC83	* A1	R49	* A1	R197	* B3	R296	* B1	R403	* D3	R495	* E2
C106	* D2	C200	* A3	C295	* D1	FL1	C2	IC84	* D3	R50	* A1	R198	* B3	R297	* C2	R404	* D3	R496	* E2
C107	* C1	C201	* A3	C296	* A1	FL2	B3	IC85	* D3	R51	* A1	R199	* C3	R298	* C3	R405	* D3	R497	* E2
C108	* C1	C202	* A3	C298	* A1	FL3	C1			R52	* A1	R200	B2	R299	* C3	R406	D2	R498	* E3
C109	* D2	C203	A2	C299	D2	FL4	B2	L2	D1	R53	* D3	R201	B3	R303	* B3	R407	* D2	R499	* E3
C110	* D2	C204	* B3	C300	D1	FL5	B3	L3	D2	R54	* D3	R202	* B3	R304	* A3	R408	* E1	R500	A2
C111	* B2	C205	B2	C301	A2	FL6	A3	L4	D1	R55	* E3	R203	* B2	R305	* A3	R409	* E1		
C112	* B2	C206	* B2	C302	A2	FL7	A3			R100	D1	R204	* B2	R306	* C3	R410	* E1	RB1	* E1
C113	* B2	C207	B2	C303	* B2	FL8	B3	Q1	D2	R101	D2	R206	* B2	R307	* B3	R411	* E1	RB2	* B1
C114	* B2	C208	* B2	C310	* A1			Q2	D2	R102	D2	R207	* B2	R308	* A3	R412	* D3	RB3	* B1
C115	* C2	C209	* B2	C400	* E2	IC1	* B2	Q3	* C2	R103	D1	R208	* B2	R309	* A1	R413	* D3	RB4	* B1
C116	* B2	C210	B2	C401	* E2	IC2	B2	Q4	E3	R104	* C1	R209	* B2	R310	* B3	R414	E3	RB5	* B1
C117	* B2	C211	* B2	C402	D2	IC3	C2	Q5	* B2	R105	* D2	R210	* B2	R311	* A3	R415	* E2		
C118	* B2	C212	B2	C403	* D2	IC4	B2	Q6	* B2	R106	* E2	R211	B2	R312	B3	R416	* E2	RV1	B3
C119	* C2	C213	B2	C404	D3	IC5	* B1	Q7	* C3	R107	* D2	R212	* C3	R313	B3	R417	* E2	RV2	B3
C120	C1	C214	B2	C405	D3	IC6	C1	Q8	* C3	R108	B2	R213	* B1	R314	B3	R418	* E2	RV3	B3
C121	* B2	C215	* B2	C406	* D3	IC7	C3	Q9	* C2	R109	* D2	R214	* B2	R315	* B3	R419	D3	RV4	B3
C122	* C2	C216	* B2	C407	* D3	IC8	D2	Q10	* C2	R110	* D2	R215	* B2	R316	* C2	R420	* D2	RV5	B3
C123	D2	C217	* B2	C408	D3	IC9	D2	Q11	B3	R111	* D2	R216	* B2	R317	* C2	R421	* D3	RV6	A3
C124	* B2	C218	* B2	C409	D2	IC10	D2	Q12	C2	R112	* D2	R217	* B2	R318	* C2	R422	* D2	RV7	A3
C125	C2	C219	* B1	C410	D3	IC11	D2	Q13	* C2	R113	* E2	R218	* B2	R319	* B3	R423	* D2	RV8	D2
C126	* D2	C220	* B1	C411	* D3	IC12	C2	Q14	C2	R114	D1	R219	* A3	R320	* B3	R424	* D3	RV9	E1
C127	B1	C221	* B1	C412	* E1	IC13	C2	Q15	* B3	R115	* C2	R220	* A3	R321	* B3	R425	* E3	RV10	A3
C128	* D1	C222	* B1	C413	* E2	IC14	B2	Q16	* B3	R116	* C2	R221	* B1	R322	* B3	R426	* D3	RV11	A3
C129	* C1	C223	* B1	C414	* E1	IC15	B2	Q17	* B3	R118	* C2	R222	* B2	R332	* B3	R427	* E2	RV12	A3
C130	* C1	C224	* B1	C415	* E2	IC16	* C3	Q18	C1	R119	* C2	R223	* B1	R333	* B3	R428	E2	RV13	E3
C131	* D1	C226	* A2	C416	* E2	IC17	B1	Q19	* B2	R120	* C2	R224	* B2	R336	* A3	R429	* E2		
C132	* D2	C227	A2	C417	D3	IC18	A2	Q20	* C1	R121	* C2	R225	* B1	R337	* A3	R430	* D2	S1	D2
C133	D1	C228	* A2	C418	* D2	IC19	A3	Q21	* C1	R122	* C2	R226	* C3	R338	* A3	R431	* D2		
C134	* D1	C229	* A2	C419	* D2	IC20	C3	Q22	* A2	R123	C2	R227	* A3	R339	* A3	R432	* E2	TP1	D3
C135	* D1	C230	* B3	C420	E2	IC21	A1	Q23	* A2	R124	* C2	R228	* A3	R340	* B2	R433	* E2	TP2	B2
C136	D2	C231	* A2	C421	* E3	IC22	A2	Q24	* A2	R125	* B2	R229	* B3	R341	B2	R434	* E3	TP3	E3
C137	* D2	C232	A2	C422	E2	IC23	A1	Q25	* A2	R126	* B2	R230	* B2	R342	* B3	R435	* E2	TP4	A2
C138	D1	C234	A2	C423	* E2	IC24	* B3	Q41	* B2	R127	* B2	R231	* B2	R343	B3	R436	* E2	TP5	A2
C139	D2	C235	* A2	C424	* E3	IC25	* A1	Q42	* B2	R128	* B2	R233	A2	R344	* B1	R437	* E2	TP6	E1
C140	D1	C236	* A2	C425	* D3	IC26	A1	Q43	* B2	R129	* C2	R234	A3	R345	B2	R438	* E2		
C141	* C2	C237	* A2	C426	* E2	IC27	* C1	Q48	* A2	R131	* C2	R235	* C3	R346	B2	R439	* E3		
C142	* C2	C238	* A2	C427	* E3	IC28	A1	Q53	* A2	R132	* C2	R236	* B3	R347	B2	R440	* E3	* : B Side	
C143	* C1	C239	* B1	C428	* D3	IC29	* C1	Q55	* C1	R133	* C2	R237	* B2	R348	B2	R441	* E3		
C144	C1	C240	* A1	C429	* D3	IC30	* C1	Q56	D3	R134	C2	R238	* A2	R349	* B1	R442	* E3		
C145	* C2	C241	* A1	C430	* D3	IC31	B2	Q57	* D2	R135	* C2	R239	* A2	R350	* B1	R443	* E3		
C146	* C2	C242	* A2	C431	* E3	IC32	C3	Q58	D2	R145	C2	R240	* A2	R352	A3	R444	* E3		
C147	* C2	C243	* A1	C432	E2	IC33	* A3	Q200	* B2	R147	* C2	R241	* A2	R353	A3	R445	E3		
C148	* C2	C244	* A1	C433	* E2	IC34	* A3			R148	* C2	R242	* A2	R354	A3	R446	E3		
C149	* C2	C245	* A1	C434	* E2	IC35	A3	R1	* C2	R149	* C2	R243	* A2	R355	* A3	R447	E2		
C151	C1	C246	* A2	C435	* D2	IC36	A2	R2	* E2	R150	* C2	R244	* A2	R356	* A3	R448	E2		
C153	* A3	C247	A2	C436	* E3	IC37	A2	R3	* C2	R151	* C2	R245	* A2	R357	A2	R449	E2		
C154	* C2	C248	* A2	C437	* E2	IC38	D3	R4	* C2	R152	* C2	R246	* A2	R358	A2	R450	* E3		
C155	* B3	C249	* A2	C439	* E2	IC39	E3	R5	* C2	R153	* C3	R247	* A2	R359	* A2	R451	E3		
C156	* C2	C250	A1	C440	* E3	IC40	C2	R6	* C2	R154	* C3	R248	* A2	R360	* A2	R452	E2		
C157	* B3	C251	* A2	C441	* E3	IC41	* B1	R7	* C2	R155	* C3	R249	A2	R361	* A2	R453	E2		
C158	* B3	C252	A2	C442	* E3	IC42	* E1	R8	* C2	R156	* C3	R250	* C3	R362	* A1	R454	* E2		
C159	* C2	C253	A1	C443	* E3	IC43	E1	R9	* C2	R157	* C3	R251	* A3	R363	* A1	R455	* E3		
C160	* C2	C254	A2	C444	E1	IC44	* D1	R10	* C2	R158	* C2	R254	* A2	R364	* A1	R456	* D2		
C161	* C3	C255	* A1	C446	* E3	IC45	* B1	R11	* C2	R159	* C3	R256	A2	R365	* A1	R457	* D3		
C162	* D3	C256	* A1	C448	E1	IC46	* C1	R12	* B3	R160	* C2	R257	* A2	R366	* B1	R458	* D3		
C163	* D3	C257	* A1	C449	E1	IC47	* A1	R13	* B2	R161	* B2	R258	* A2	R367	A2	R459	* D3		
C164	* D2	C258	* A1	C450	* D1	IC48	C2	R14	* D1	R162	* D3	R259	* C3	R368	A2	R460	* D3		
C165	* C3	C259	* A1	C451	E1	IC49	A1	R15	* B1	R163	* C2	R260	* A1	R369	A2	R461	E1		
C166	* C3	C260	* A1	C452	E1	IC50	D3	R16	* C1	R164	* C3	R261	* A1	R370	* A2	R462	D1		
C167	* C2	C261	* A1	C453	E1	IC51	* E1	R17	* C1	R165	* C3	R262	* A2	R371	A2	R463	* D3		
C168	* C2	C262	* A1	C454	D2	IC52	D3	R18	* E3	R166	* C3	R263	* A2	R372	* A2	R464	* E3		
C169	* C2	C263	* A1	C455	E1	IC53	D3	R19	* E3	R167	* C3	R264	* A1	R373	* A2	R465	* D2		
C170	* C2	C264	* A1	C457	* E2	IC54	* D3	R20	E3	R168	B2	R265	* A1	R374	* A2	R466	* E1		
C171	* D2	C265	* A3	C459	* E1	IC55	E1	R21	E3	R169	* D3	R266	* A2	R375	* A2	R467	* D2		
C172	* D3	C266	* A3	C460	* E1	IC56	D2	R22	E3	R170	* B2	R267	A1	R376	A2	R468	* D2		
C173	* D3	C267	* B3	C464	D3	IC57	D2	R23	* E3	R171	* B2	R268	A1	R377	* A2	R469	B2		
C174	* D2	C268	* A3	C465	D3	IC58	D2	R24	E3	R172	* B2	R269	* A1	R378	* A2	R470	* E1		
C175	* D3	C269	* A1	C466	* D3	IC59	E1	R25	* E2	R173	B2	R270	* A2	R379	A2	R471	E1		
C176	* C3	C270	* A1	C467	* D3	IC60	E3	R26	* E1	R174	C2	R271	A1	R380	A2	R472	* D3		
C177	* C2	C271	* A3	C468	* D3	IC61	E2	R27	* E1	R175	* C2	R272	* A2	R381	* A2	R473	* A3		
C178	D3	C272	A3	C470	* D3	IC62	* E3	R28	* E1	R176	* C2	R273	A1	R382	* A2	R474	E3		
C179	* B3	C273	A1	C471	* E2	IC63	* E3	R29	* E1	R177	C2	R274	* C3	R383	* A1	R475	E3		

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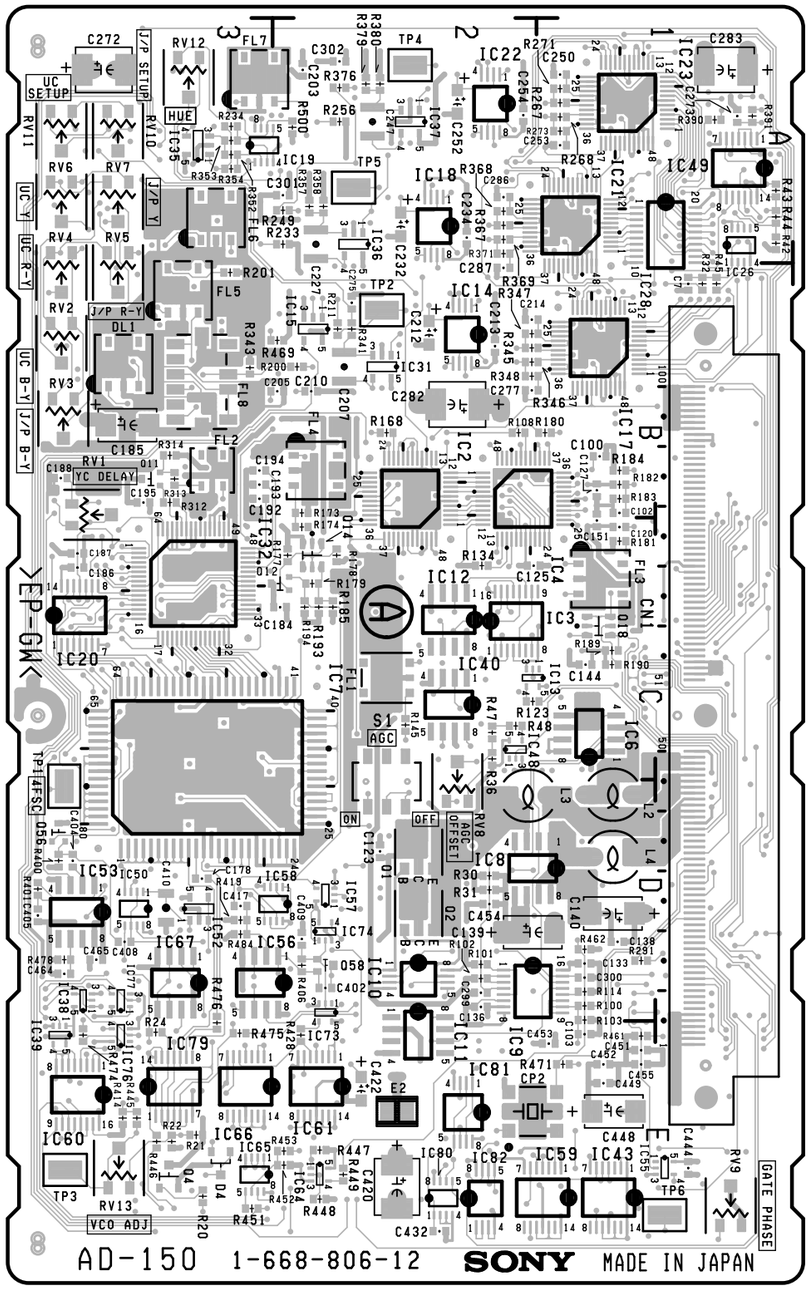
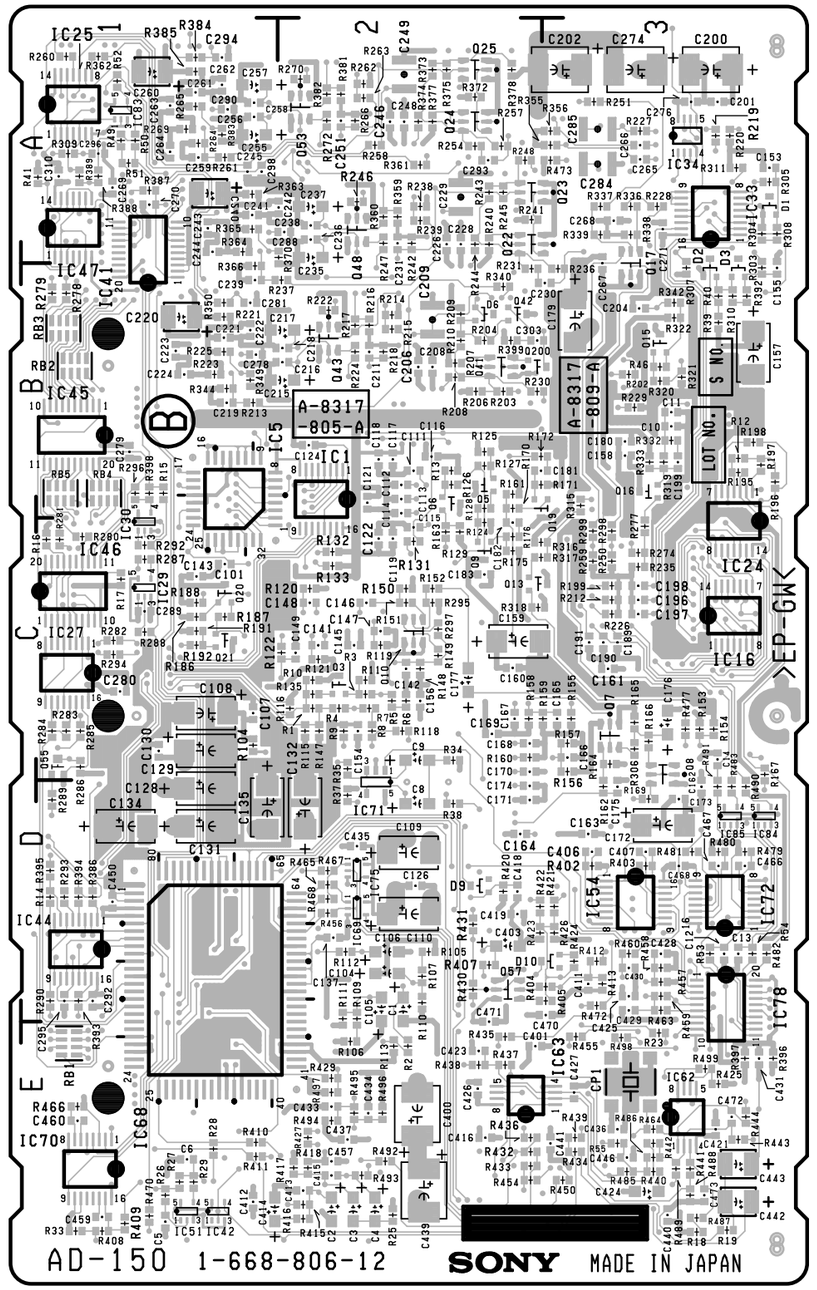


CA-702 (SY) : S/N 10046 through 10170
CA-702P (SY) : S/N 40011 through 40025

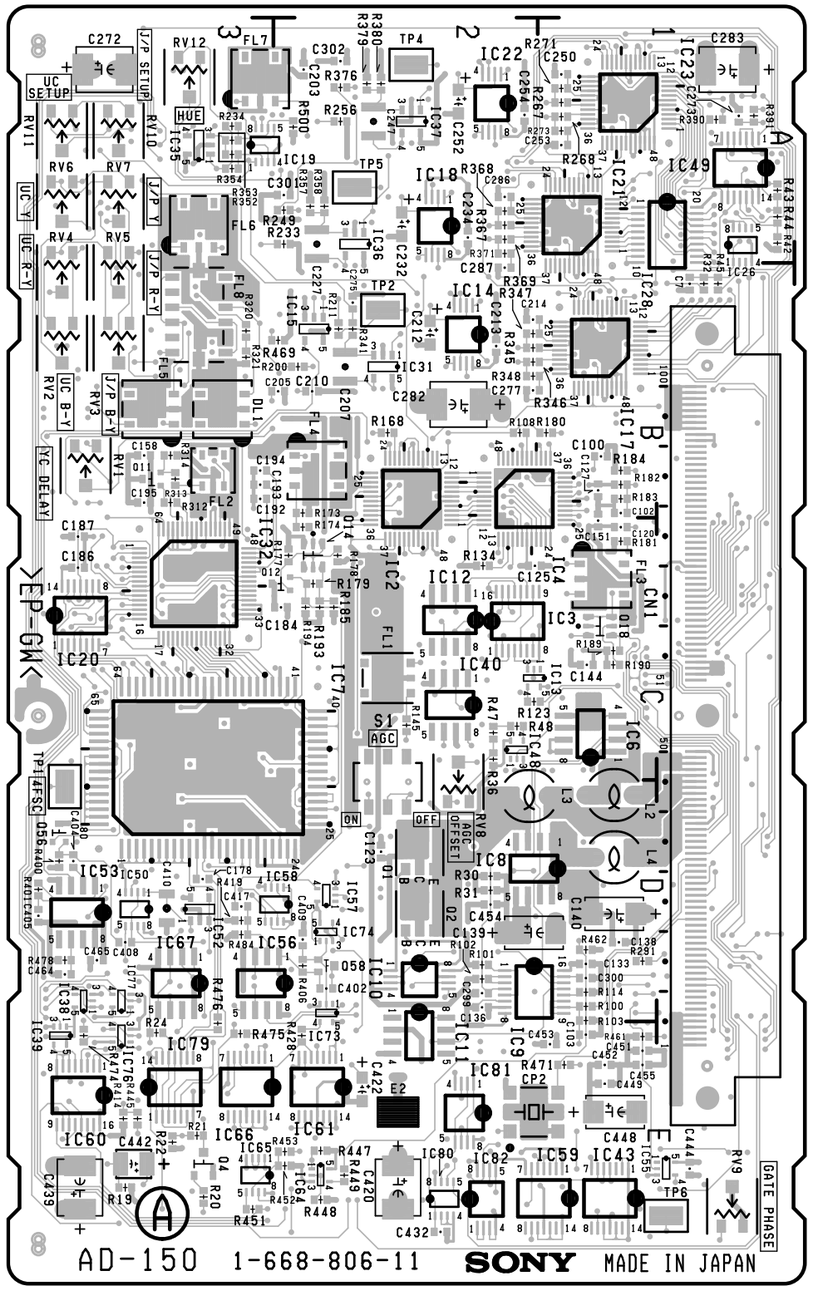
AD-150/150P - A SIDE -
1-668-806-12



AD-150/150P - B SIDE -
1-668-806-12

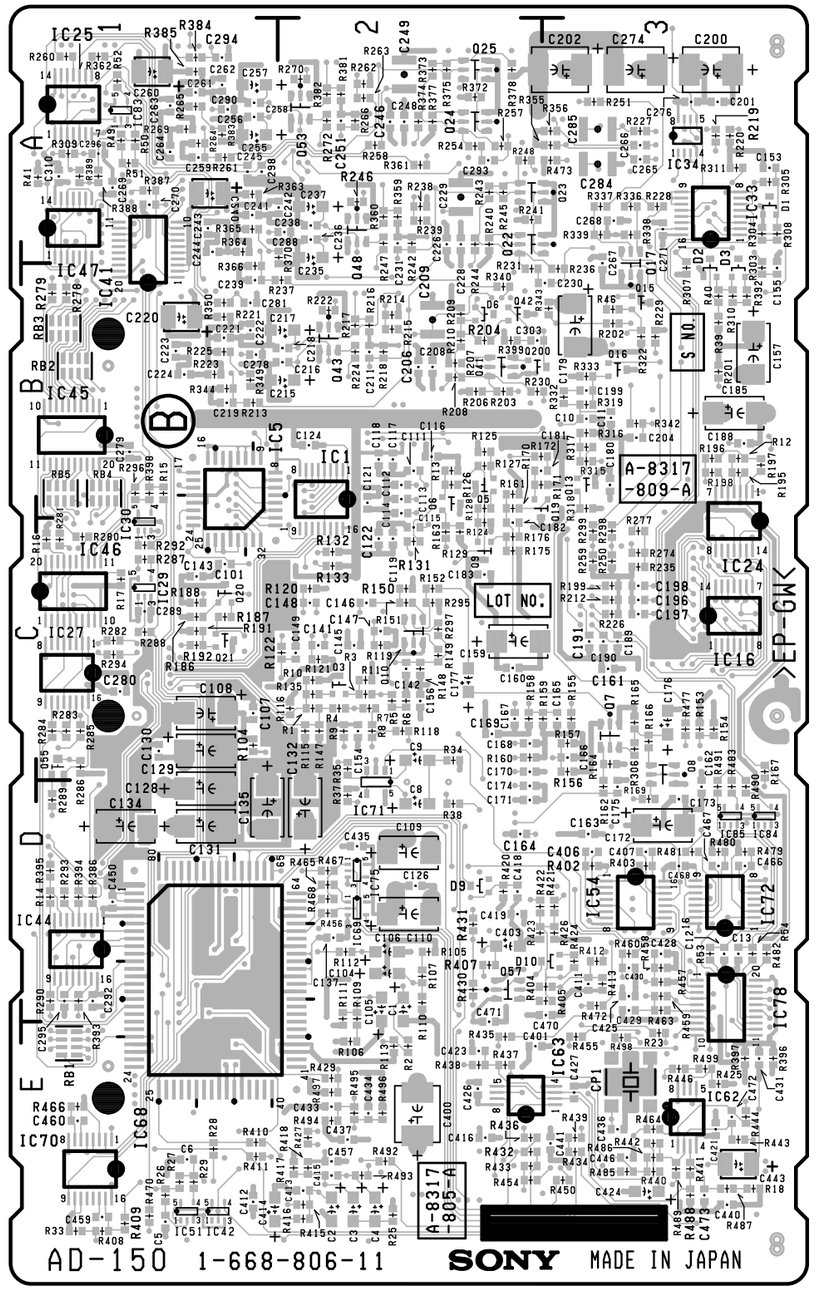
AD-150/150P (1-668-806-11)

C1	* D2	C181	* B2	C275	B2	C473	* E3	IC56	D2	R22	E3	R171	* B2	R268	A1	R377	* A2	R469	B2
C2	* E2	C182	* C2	C276	* A3	C475	A3	IC57	D2	R23	* E3	R172	* B2	R269	* A1	R378	* A2	R470	* E1
C3	* E2	C183	* C2	C277	B2	C476	A3	IC58	D2	R24	E3	R173	B2	R270	* A2	R379	A2	R471	E1
C4	* E2	C184	C2	C278	* B1	C477	A3	IC59	E1	R25	* E2	R174	C2	R271	A1	R380	A2	R472	* D3
C5	* E1	C185	* B3	C279	* B1	C478	A3	IC60	E3	R26	* E1	R175	* C2	R272	* A2	R381	* A2	R473	* A3
C6	* E1	C186	C3	C280	* C1	C479	B3	IC61	E2	R27	* E1	R176	* C2	R273	A1	R382	* A2	R474	E3
C7	B1	C187	C3	C281	* B1	C480	D3	IC62	* E3	R28	* E1	R177	C2	R274	* C3	R383	* A1	R475	E3
C8	* D2	C188	* B3	C282	B2	C481	E3	IC63	* E3	R29	* E1	R178	C2	R277	* C3	R384	* A1	R476	E3
C9	* C2	C189	* C3	C283	A1	C482	E3	IC64	E2	R30	D2	R179	C2	R278	* B1	R385	* A1	R477	* C3
C10	* B3	C190	* C3	C284	* A3	C483	E3	IC65	E3	R31	D2	R180	B1	R279	* B1	R386	* D1	R478	D3
C11	* B3	C191	* C3	C285	* A3	C484	E3	IC66	E3	R32	B1	R181	C1	R280	* C1	R387	* A1	R479	* D3
C12	* D3	C192	B3	C286	A2			IC67	D3	R33	* E1	R182	B1	R281	* C1	R388	* A1	R480	* D3
C13	* D3	C193	B3	C287	B2	CN1	C1	IC68	* D1	R34	* C2	R183	B1	R282	* C1	R389	* A1	R481	* D3
C100	B1	C194	B3	C288	* A2			IC69	* D2	R35	* C2	R184	B1	R283	* C1	R390	A1	R482	* D3
C101	* C1	C195	B3	C289	* C1	CP1	* E3	IC70	* E1	R36	C2	R185	C2	R284	* C1	R391	A1	R483	* D3
C102	B1	C196	* C3	C290	* A1	CP2	E2	IC71	* D2	R37	* D2	R186	* C1	R285	* C1	R392	* B3	R484	D3
C103	E1	C197	* C3	C292	* D1			IC72	* D3	R38	* D2	R187	* C1	R286	* C1	R393	* D1	R485	* E3
C104	* D2	C198	* C3	C293	* A2	D1	* A3	IC73	D2	R39	* B3	R188	* C1	R287	* C1	R394	* D1	R486	* E3
C105	* D2	C199	* B3	C294	* A1	D2	* B3	IC74	D2	R40	* B3	R189	C1	R288	* C1	R395	* D1	R487	* E3
C106	* D2	C200	* A3	C295	* D1	D3	* B3	IC75	* D2	R41	* A1	R190	C1	R289	* D1	R396	* E3	R488	* E3
C107	* C1	C201	* A3	C296	* A1	D6	* B2	IC76	E3	R42	A1	R191	* C1	R290	* D1	R397	* E3	R489	* E3
C108	* C1	C202	* A3	C298	* A1	D9	* D2	IC77	D3	R43	A1	R192	* C1	R291	D1	R398	* B1	R490	* D3
C109	* D2	C203	A2	C299	D2	D10	* D3	IC78	* D3	R44	A1	R193	C2	R292	* C1	R399	* B2	R491	* D3
C110	* D2	C204	* B3	C300	D1			IC79	E3	R45	B1	R194	C2	R293	* D1	R400	D3	R492	* E2
C111	* B2	C205	B2	C301	A2	DL1	B3	IC80	E2	R46	* B3	R195	* B3	R294	* C1	R401	D3	R493	* E2
C112	* B2	C206	* B2	C302	A2			IC81	E2	R47	C2	R196	* B3	R295	* C2	R402	* D3	R494	* E2
C113	* B2	C207	B2	C303	* B2	E2	E2	IC82	E2	R48	C2	R197	* B3	R296	* B1	R403	* D3	R495	* E2
C114	* B2	C208	* B2	C310	* A1			IC83	* A1	R49	* A1	R198	* B3	R297	* C2	R404	* D3	R496	* E2
C115	* C2	C209	* B2	C400	* E2	FL1	C2	IC84	* D3	R50	* A1	R199	* C3	R298	* C3	R405	* D3	R497	* E2
C116	* B2	C210	B2	C401	* E2	FL2	B3	IC85	* D3	R51	* A1	R200	B2	R299	* C3	R406	D2	R498	* E3
C117	* B2	C211	* B2	C402	D2	FL3	C1			R52	* A1	R201	* B3	R303	* B3	R407	* D2	R499	* E3
C118	* B2	C212	B2	C403	* D2	FL4	B2	L2	D1	R53	* D3	R202	* B3	R304	* A3	R408	* E1	R500	A2
C119	* C2	C213	B2	C404	D3	FL5	B3	L3	D2	R54	* D3	R203	* B2	R305	* A3	R409	* E1		
C120	C1	C214	B2	C405	D3	FL6	A3	L4	D1	R100	D1	R204	* B2	R306	* C3	R410	* E1	RB1	* E1
C121	* B2	C215	* B2	C406	* D3	FL7	A3			R101	D2	R206	* B2	R307	* B3	R411	* E1	RB2	* B1
C122	* C2	C216	* B2	C407	* D3	FL8	B3	Q1	D2	R102	D2	R207	* B2	R308	* A3	R412	* D3	RB3	* B1
C123	D2	C217	* B2	C408	D3			Q2	D2	R103	D1	R208	* B2	R309	* A1	R413	* D3	RB4	* B1
C124	* B2	C218	* B2	C409	D2	IC1	* B2	Q3	* C2	R104	* C1	R209	* B2	R310	* B3	R414	E3	RB5	* B1
C125	C2	C219	* B1	C410	D3	IC2	B2	Q4	E3	R105	* D2	R210	* B2	R311	* A3	R415	* E2		
C126	* D2	C220	* B1	C411	* D3	IC3	C2	Q5	* B2	R106	* E2	R211	B2	R312	B3	R416	* E2	RV1	B3
C127	B1	C221	* B1	C412	* E1	IC4	B2	Q6	* B2	R107	* D2	R212	* C3	R313	B3	R417	* E2	RV2	B3
C128	* D1	C222	* B1	C413	* E2	IC5	* B1	Q7	* C3	R108	B2	R213	* B1	R314	B3	R418	* E2	RV3	B3
C129	* C1	C223	* B1	C414	* E1	IC6	C1	Q8	* C3	R109	* D2	R214	* B2	R315	* B3	R419	D3	RV4	B3
C130	* C1	C224	* B1	C415	* E2	IC7	C3	Q9	* C2	R110	* D2	R215	* B2	R316	* B3	R420	* D2	RV5	B3
C131	* D1	C226	* A2	C416	* E2	IC8	D2	Q10	* C2	R111	* D2	R216	* B2	R317	* B3	R421	* D3	RV6	A3
C132	* D2	C227	A2	C417	D3	IC9	D2	Q11	B3	R112	* D2	R217	* B2	R318	* B3	R422	* D2	RV7	A3
C133	D1	C228	* A2	C418	* D2	IC10	D2	Q12	C2	R113	* E2	R218	* B2	R319	* B3	R423	* D2	RV8	D2
C134	* D1	C229	* A2	C419	* D2	IC11	D2	Q13	* B3	R114	D1	R219	* A3	R320	B3	R424	* D3	RV9	E1
C135	* D1	C230	* B3	C420	E2	IC12	C2	Q14	C2	R115	* C2	R220	* A3	R321	B3	R425	* E3	RV10	A3
C136	D2	C231	* A2	C421	* E3	IC13	C2	Q15	* B3	R116	* C2	R221	* B1	R322	* B3	R426	* D3	RV11	A3
C137	* D2	C232	A2	C422	E2	IC14	B2	Q16	* B3	R118	* C2	R222	* B2	R332	* B3	R427	* E2	RV12	A3
C138	D1	C234	A2	C423	* E2	IC15	B2	Q17	* B3	R119	* C2	R223	* B1	R333	* B3	R428	E2		
C139	D2	C235	* A2	C424	* E3	IC16	* C3	Q18	C1	R120	* C2	R224	* B2	R336	* A3	R429	* E2	S1	D2
C140	D1	C236	* A2	C425	* D3	IC17	B1	Q19	* B2	R121	* C2	R225	* B1	R337	* A3	R430	* D2		
C141	* C2	C237	* A2	C426	* E2	IC18	A2	Q20	* C1	R122	* C2	R226	* C3	R338	* A3	R431	* D2	TP1	D3
C142	* C2	C238	* A2	C427	* E3	IC19	A3	Q21	* C1	R123	C2	R227	* A3	R339	* A3	R432	* E2	TP2	B2
C143	* C1	C239	* B1	C428	* D3	IC20	C3	Q22	* A2	R124	* C2	R228	* A3	R340	* B2	R433	* E2	TP4	A2
C144	C1	C240	* A1	C429	* D3	IC21	A1	Q23	* A2	R125	* B2	R229	* B3	R341	B2	R434	* E3	TP5	A2
C145	* C2	C241	* A1	C430	* D3	IC22	A2	Q24	* A2	R126	* B2	R230	* B2	R342	* B3	R435	* E2	TP6	E1
C146	* C2	C242	* A2	C431	* E3	IC23	A1	Q25	* A2	R127	* B2	R231	* B2	R343	* B3	R436	* E2		
C147	* C2	C243	* A1	C432	E2	IC24	* B3	Q41	* B2	R128	* B2	R233	A2	R344	* B1	R437	* E2	* : B Side	
C148	* C2	C244	* A1	C433	* E2	IC25	* A1	Q42	* B2	R129	* C2	R234	A3	R345	B2	R438	* E2		
C149	* C2	C245	* A1	C434	* E2	IC26	A1	Q43	* B2	R131	* C2	R235	* C3	R346	B2	R439	* E3		
C151	C1	C246	* A2	C435	* D2	IC27	* C1	Q48	* A2	R132	* C2	R236	* B3	R347	B2	R440	* E3		
C153	* A3	C247	A2	C436	* E3	IC28	A1	Q53	* A2	R133	* C2	R237	* B2	R348	B2	R441	* E3		
C154	* C2	C248	* A2	C437	* E2	IC29	* C1	Q55	* C1	R134	C2	R238	* A2	R349	* B1	R442	* E3		
C155	* B3	C249	* A2	C439	E3	IC30	* C1	Q56	D3	R135	* C2	R239	* A2	R350	* B1	R443	* E3		
C156	* C2	C250	A1	C440	* E3	IC31	B2	Q57	* D2	R145	C2	R240	* A2	R352	A3	R444	* E3		
C157	* B3	C251	* A2	C441	* E3	IC32	C3	Q58	D2	R147	* C2	R241	* A2	R353	A3	R445	E3		
C158	B3	C252	A2	C442	E3	IC33	* A3	Q200	* B2	R148	* C2	R242	* A2	R354	A3	R446	* E3		
C159	* C2	C253	A1	C443	* E3	IC34	* A3			R149	* C2	R243	* A2	R355	* A3	R447	E2		
C160	* C2	C254	A2	C444	E1	IC35	A3	R1	* C2	R150	* C2	R244	* A2	R356	* A3	R448	E2		
C161	* C3	C255	* A1	C446	* E3	IC36	A2	R2	* E2	R151	* C2	R245	* A2	R357	A2	R449	E2		
C162	* D3	C256	* A1	C448	E1	IC37	A2	R3	* C2	R152	* C2	R246	* A2	R358	A2	R450	* E3		
C163	* D3	C257	* A1	C449	E1	IC38	D3	R4	* C2	R153	* C3	R247	* A2	R359	* A2	R451	E3		
C164	* D2	C258	* A1	C450	* D1	IC39	E3	R5	* C2	R154	* C3	R248	* A2	R360	* A2	R452	E2		
C165	* C3	C259	* A1	C451	E1	IC40	C2	R6	* C2	R155	* C3	R249	A2	R361	* A2	R453	E2		
C166	* C3	C260	* A1	C452	E1	IC41	* B1	R7	* C2	R156	* C3	R250	* C3	R362	* A1	R454	* E2		
C167	* C2	C261	* A1	C453	E1	IC42	* E1	R8	* C2	R157	* C3	R251	* A3	R363	* A1	R455	* E3		
C168	* C2	C262	* A1	C454	D2	IC43	E1	R9	* C2	R158	* C2	R254	* A2	R364	* A1	R456	* D2		
C169	* C2	C263	* A1	C455	E1	IC44	* D1	R10	* C2	R159	* C3	R256	A2	R365	* A1	R457	* D3		
C170	* C2	C264	* A1	C457	* E2	IC45	* B1	R11	* C2	R160	* C2	R257	* A2	R366	* B1	R458	* D3		
C171	* D2	C265	* A3	C459	* E1	IC46	* C1	R12	* B3	R161	* B2	R258	* A2	R367	A2	R459	* D3		
C172	* D3	C266	* A3	C460	* E1	IC47	* A1	R13	* B2	R162	* D3	R259	* C3	R368	A2	R460	* D3		
C173	* D3	C267	* B3	C464	D3	IC48	C2	R14	* D1	R163	* C2	R260	* A1	R369	A2	R461	E1		
C174	* D2	C268	* A3	C465	D3	IC49	A1	R15	* B1	R164	* C3	R261	* A1	R370	* A2	R462	D1		
C175	* D3	C269	* A1	C466	* D3	IC50	D3	R16	* C1	R165	* C3	R262	* A2	R371	A2	R463	* D3		
C176	* C3	C270	* A1	C467	* D3	IC51	* E1	R17	* C1	R166	* C3	R263	* A2	R372	* A2	R464	* E3		
C177	* C2	C271	* A3	C468	* D3	IC52	D3	R18	* E3	R167	* C3	R264	* A1	R373	* A2	R465	* D2		
C178	D3	C272	A3	C470	* D3	IC53	D3	R19	E3	R168	B2	R265	* A1	R374	* A2	R466	* E1		
C179	* B3	C273	A1	C471	* E2	IC54	* D3	R20	E3	R169	* D3	R266	* A2	R375	* A2	R467	* D2		
C180	* B3	C274	* A3	C472	* E3	IC55	E1	R21	E3	R170	* B2	R267	A1	R376	A2	R468	* D2		



CA-702 (SY) : S/N 10001 through 10045
CA-702P (SY) : S/N 40001 through 40010

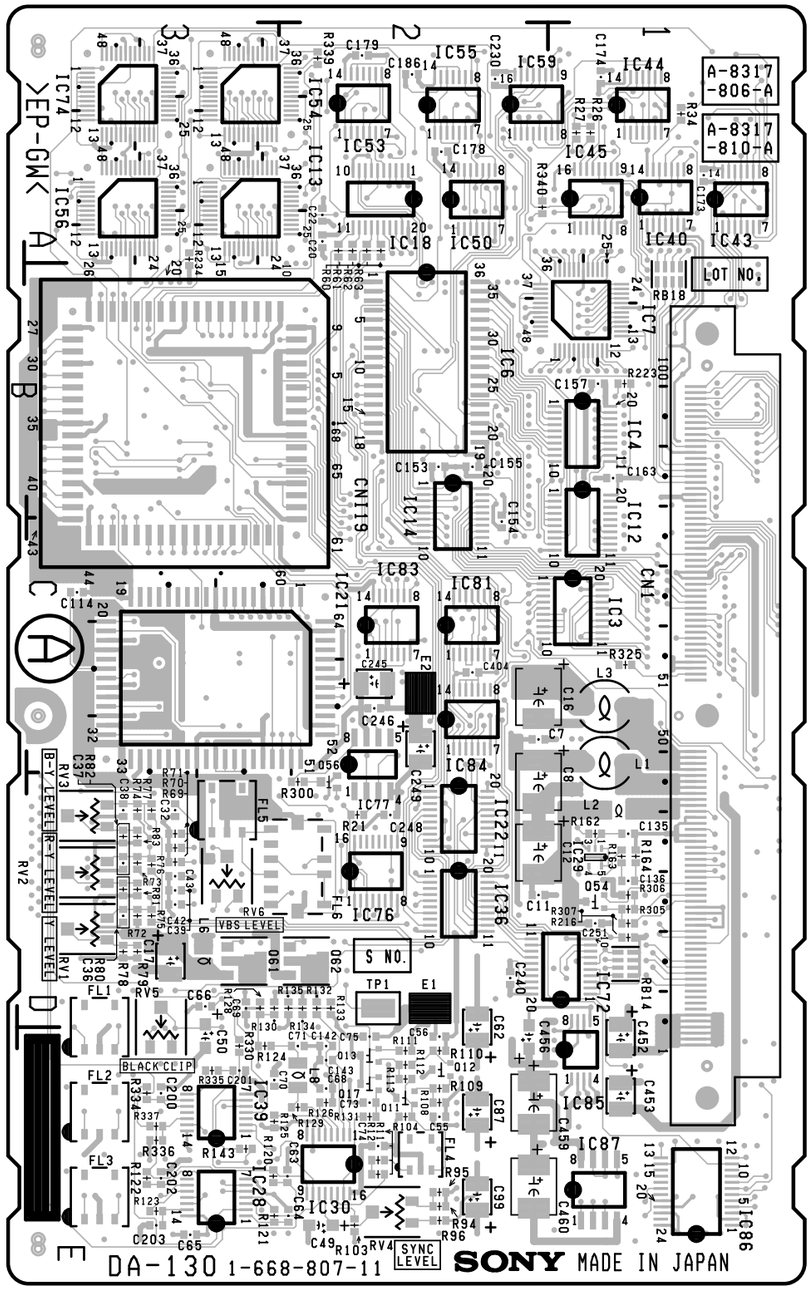
AD-150/150P - A SIDE -
1-668-806-11



AD-150/150P - B SIDE -
1-668-806-11

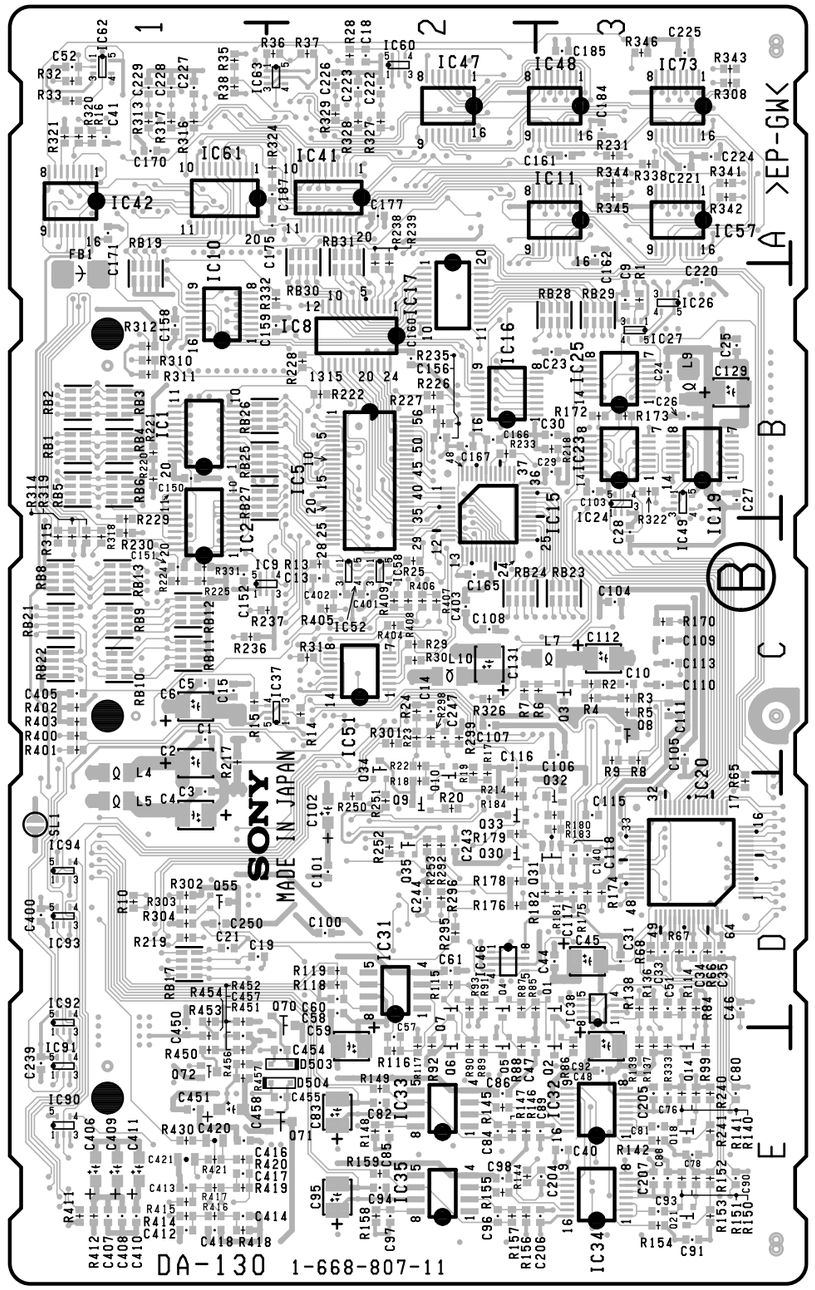
DA-130/130P (1-668-807-11)

C1	* C1	C98	* E2	C404	C2	IC35	* E2	R3	* C3	R124	E3	R305	D1		
C2	* C1	C99	E2	C405	* C1	IC36	D2	R4	* C3	R125	E3	R306	D1		
C3	* D1	C100	* D2	C406	* E1	IC37	* C2	R5	* C3	R126	E2	R307	D1		
C4	* D1	C101	* D2	C407	* E1	IC38	* D3	R6	* C3	R128	D3	R308	* A3		
C5	* C1	C102	* D2	C408	* E1	IC39	E3	R7	* C2	R129	E2	R310	* B1		
C6	* C1	C103	* B3	C409	* E1	IC40	A1	R8	* C3	R130	D3	R311	* B1		
C7	C2	C104	* C3	C410	* E1	IC41	* A2	R9	* C3	R131	E2	R312	* B1		
C8	D2	C105	* C3	C411	* E1	IC42	* A1	R10	* D1	R132	D2	R313	* A1		
C9	* B3	C106	* C3	C412	* E1	IC43	A1	R11	E2	R133	D2	R314	* C1		
C10	* C3	C107	* C2	C413	* E1	IC44	A1	R12	E2	R134	D2	R315	* C1		
C11	D2	C108	* C2	C414	* E1	IC45	A1	R13	* C2	R135	D2	R316	* A1		
C12	D2	C109	* C3	C416	* E1	IC46	* D2	R14	* C2	R136	* D3	R317	* A1		
C13	* C2	C110	* C3	C417	* E1	IC47	* A2	R15	* C1	R137	* E3	R318	* C1		
C14	* C2	C111	* C3	C418	* E1	IC48	* A3	R16	* A1	R138	* D3	R319	* C1		
C15	* C1	C112	* C3	C420	* E1	IC49	* B3	R17	* D2	R139	* E3	R320	* A1		
C16	C2	C113	* C3	C421	* E1	IC50	A2	R18	* D2	R140	* E3	R321	* A1		
C17	D3	C114	C3	C450	* E1	IC51	* C2	R19	* D2	R141	* E3	R322	* B3		
C18	* A2	C115	* D3	C451	* E1	IC52	* C2	R20	* D2	R142	* E3	R324	* A2		
C19	* D1	C116	* C2	C452	E1	IC53	A2	R21	D2	R143	E3	R325	C1		
C20	A2	C117	* D3	C453	E1	IC54	A3	R22	* C2	R144	* E2	R326	* C2		
C21	* D1	C118	* D3	C454	* E2	IC55	A2	R23	* C2	R145	* E2	R327	* A2		
C22	A2	C129	* B3	C455	* E2	IC56	A3	R24	* C2	R146	* E2	R328	* A2		
C23	* B3	C131	* C2	C456	E2	IC57	* A3	R25	* C2	R147	* E2	R329	* A2		
C24	* B3	C135	D1	C457	* E1	IC58	* C2	R26	A1	R148	* E2	R330	E3		
C25	* B3	C136	D1	C458	* E1	IC59	A2	R27	A1	R149	* E2	R331	* C1		
C26	* B3	C140	* D3	C459	E2	IC60	* A2	R28	* A2	R150	* E3	R332	* B2		
C27	* B3	C142	E2	C460	E2	IC61	* A1	R29	* C2	R151	* E3	R333	* E3		
C28	* C3	C143	E2	C461	A3	IC62	* A1	R30	* C2	R152	* E3	R334	E3		
C29	* B3	C150	* B1	C462	A3	IC63	* A2	R31	* C2	R153	* E3	R335	E3		
C30	* B3	C151	* C1	C463	A3	IC72	D1	R32	* A1	R154	* E3	R336	E3		
C31	* D3	C152	* C1	C464	A3	IC73	* A3	R33	* A1	R155	* E2	R337	E3		
C32	D3	C153	B2	C465	B3	IC74	A3	R34	A1	R156	* E2	R338	* A3		
C33	* D3	C154	C2	C466	E3	IC76	D2	R35	* A1	R157	* E2	R339	A2		
C34	* D3	C155	B2	C467	E3	IC77	D2	R36	* A2	R158	* E2	R340	A2		
C35	* D3	C156	* B2	C468	E3	IC81	C2	R37	* A2	R159	* E2	R341	* A3		
C36	D3	C157	B1	C469	E3	IC83	C2	R38	* A1	R162	D1	R342	* A3		
C37	D3	C158	* B1	C470	E3	IC84	C2	R60	A2	R163	D1	R343	* A3		
C38	D3	C159	* B2			IC85	E1	R61	A2	R164	D1	R344	* A3		
C39	D3	C160	* B2	CN1	C1	IC86	E1	R62	A2	R170	* C3	R345	* A3		
C40	* E3	C161	* A3			IC87	E1	R63	A2	R172	* B3	R346	* A3		
C41	* A1	C162	* A3	CNI19	B3	IC90	* E1	R65	* D3	R173	* B3	R400	* C1		
C42	D3	C163	B1			IC91	* E1	R66	* D3	R174	* D3				
C43	D3	C165	* C2	D503	* E2	IC92	* D1	R67	* D3	R175	* D3	RB21	* C1		
C44	* D3	C166	* B2	D504	* E2	IC93	* D1	R68	* D3	R176	* D2	RB22	* C1		
C45	* D3	C167	* B2			IC94	* D1	R69	D3	R178	* D2	RB23	* C3		
C46	* D3	C170	* A1	E1	D2			R70	D3	R179	* D2	RB24	* C2		
C47	* E2	C171	* A1	E2	C2	L1	C1	R71	D3	R180	* D3	RB25	* B1		
C48	* E3	C173	A1			L2	D1	R72	D3	R181	* D3	RB26	* B1		
C49	E2	C174	A1	FB1	* B1	L3	C1	R73	D3	R182	* D3	RB27	* B1		
C50	E3	C175	* A2			L4	* D1	R74	D3	R183	* D3	RB28	* B3		
C51	* D3	C177	* A2	FL1	E3	L5	* D1	R75	D3	R184	* D2	RB29	* B3		
C52	* A1	C178	A2	FL2	E3	L6	D3	R76	D3	R214	* D2	RB30	* A2		
C55	E2	C179	A2	FL3	E3	L7	* C3	R77	D3	R216	D1	RB31	* A2		
C56	E2	C184	* A3	FL4	E2	L8	E2	R78	D3	R217	* C1				
C57	* E2	C185	* A3	FL5	D3	L9	* B3	R79	D3	R218	* B3	RV1	D3		
C58	* D2	C186	A2	FL6	D2	L10	* C2	R80	D3	R219	* D1	RV2	D3		
C59	* E2	C187	* A2					R81	D3	R220	* B1	RV3	D3		
C60	* D2	C200	E3	IC1	* B1	Q1	* D3	R82	D3	R221	* B1	RV4	E2		
C61	* D2	C201	E3	IC2	* C1	Q2	* E3	R83	D3	R222	* B2	RV5	E3		
C62	E2	C202	E3	IC3	C2	Q3	* C3	R84	* D3	R223	B1	RV6	D3		
C63	E2	C203	E3	IC4	B1	Q4	* D2	R85	* D2	R224	* C1				
C64	E2	C204	* E3	IC5	* B2	Q5	* E2	R86	* E3	R225	* C1	SL1	* D1		
C65	E3	C205	* E3	IC6	B2	Q6	* E2	R87	* D2	R226	* B2				
C66	D3	C206	* E3	IC7	B1	Q7	* D2	R88	* E2	R227	* B2	TP1	D2		
C68	E2	C207	* E3	IC8	* B2	Q8	* C3	R89	* E2	R228	* B2				
C69	D3	C220	* B3	IC9	* C1	Q9	* D2	R90	* E2	R229	* C1	* : B Side			
C70	E3	C221	* A3	IC10	* B1	Q10	* D2	R91	* D2	R230	* C1				
C71	E2	C222	* A2	IC11	* A3	Q11	E2	R92	* E2	R231	* A3				
C73	E2	C223	* A2	IC12	B1	Q12	E2	R93	* D2	R233	* B2				
C74	E2	C224	* A3	IC13	A3	Q13	E2	R94	E2	R234	A3				
C75	E2	C225	* A3	IC14	B2	Q14	* E3	R95	E2	R235	* B2				
C76	* E3	C226	* A2	IC15	* B2	Q17	E2	R96	E2	R236	* C1				
C78	* E3	C227	* A1	IC16	* B3	Q18	* E3	R99	* E3	R237	* C2				
C80	* E3	C228	* A1	IC17	* B2	Q21	* E3	R103	E2	R238	* B2				
C81	* E3	C229	* A1	IC18	A2	Q30	* D2	R104	E2	R239	* B2				
C82	* E2	C230	A2	IC19	* B3	Q31	* D3	R108	E2	R240	* E3				
C83	* E2	C239	* E1	IC20	* D3	Q32	* D3	R109	E2	R241	* E3				
C84	* E2	C240	D2	IC21	C3	Q33	* D2	R110	E2	R250	* D2				
C85	* E2	C243	* D2	IC22	D2	Q34	* C2	R111	E2	R251	* D2				
C86	* E2	C244	* D2	IC23	* B3	Q35	* D2	R112	E2	R252	* D2				
C87	E2	C245	C2	IC24	* B3	Q54	D1	R113	E2	R253	* D2				
C88	* E3	C246	C2	IC25	* B3	Q55	* D1	R114	* D3	R292	* D2				
C89	* E3	C247	* C2	IC26	* B3	Q56	D2	R115	* D2	R295	* D2				
C90	* E3	C248	D2	IC27	* B3	Q61	D3	R116	* E2	R296	* D2				
C91	* E3	C249	C2	IC28	E3	Q62	D2	R117	* E2	R298	* C2				
C92	* E3	C250	* D1	IC29	D1	Q70	* D2	R118	* D2	R299	* C2				
C93	* E3	C251	D1	IC30	E2	Q71	* E2	R119	* D2	R300	D2				
C94	* E2	C400	* D1	IC31	* D2	Q72	* E1	R120	E3	R301	* C2				
C95	* E2	C401	* C2	IC32	* E3			R121	E3	R302	* D1				
C96	* E2	C402	* C2	IC33	* E2	R1	* B3	R122	E3	R303	* D1				
C97	* E2	C403	* C2	IC34	* E3	R2	* C3	R123	E3	R304	* D1				



CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

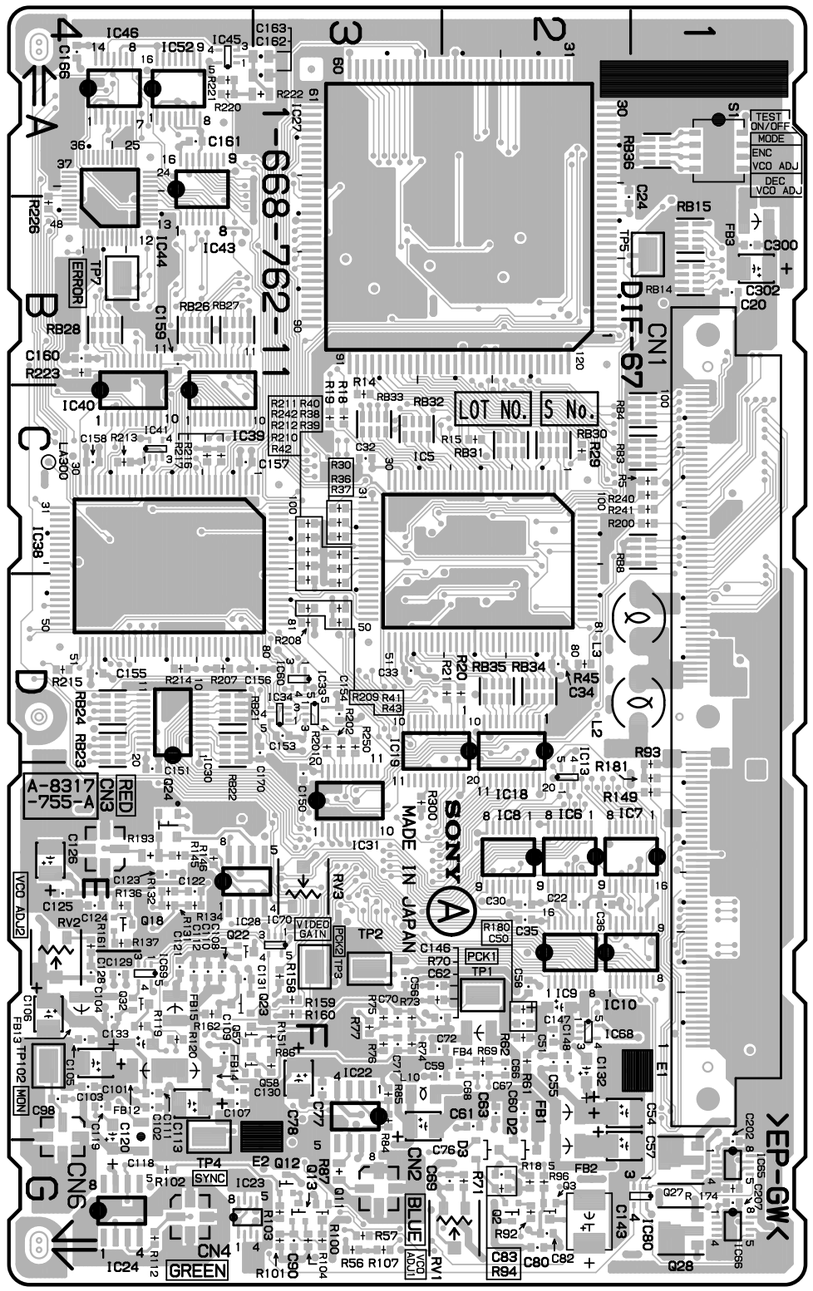
DA-130/130P - A SIDE -
1-668-807-11



DA-130/130P - B SIDE -
1-668-807-11

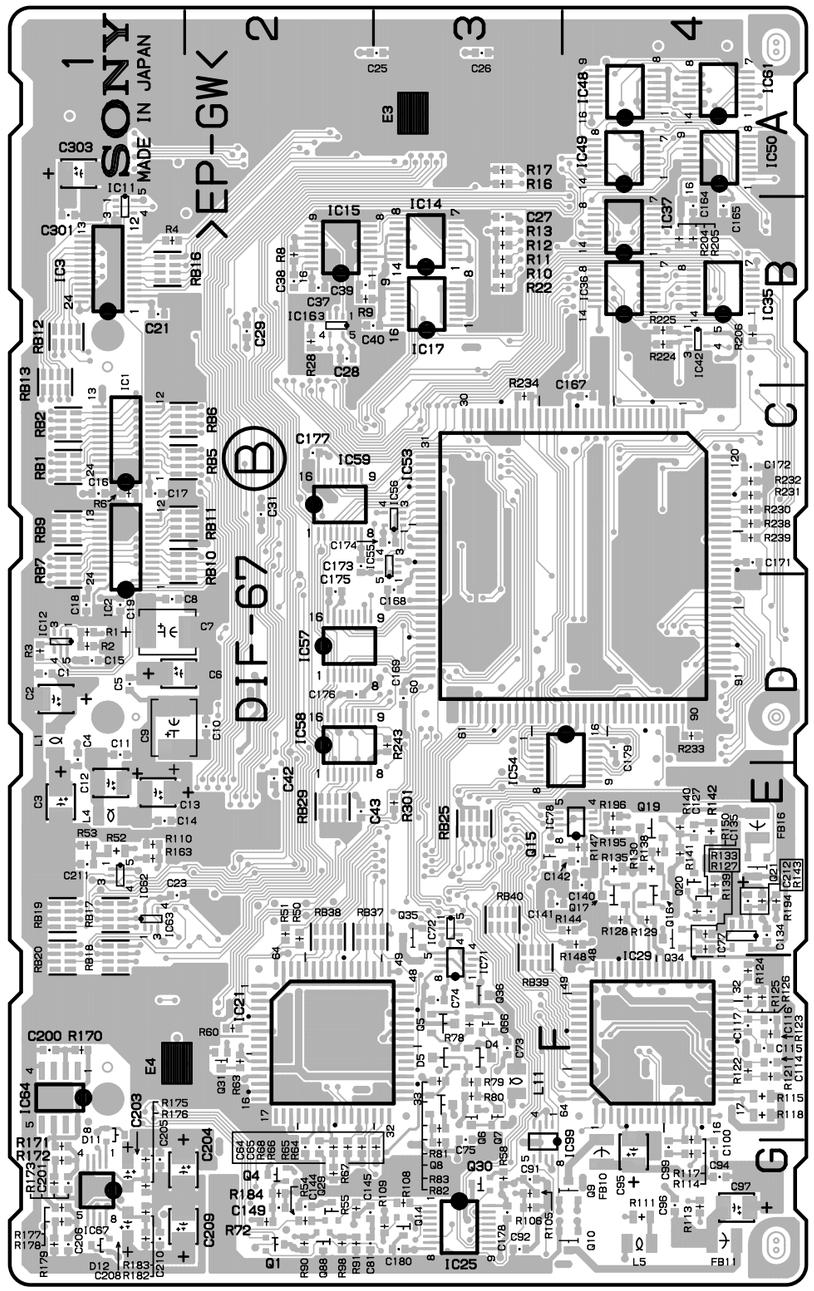
DIF-67 (1-668-762-11)

C1	* D1	C109	F4	D2	G2	IC78	* E4	R56	G3	R160	F3	RB29	* E2
C2	* D1	C110	F4	D3	G2	IC80	G1	R57	G3	R161	E4	RB30	C2
C3	* E1	C111	F4	D4	* F3	IC99	* G3	R58	* G3	R162	F4	RB31	C2
C4	* D1	C112	F4	D5	* F3			R60	* F2	R163	* E1	RB32	C3
C5	* D1	C113	F4	D11	* F1	L1	* D1	R61	F2	R170	* F1	RB33	C3
C6	* D1	C114	* F4	D12	* G1	L2	D1	R62	F2	R171	* G1	RB34	D2
C7	* D1	C115	* F4			L3	D1	R63	* F2	R172	* G1	RB35	D2
C8	* D1	C116	* F4	E1	F1	L4	* E1	R64	* G3	R173	* G1	RB36	A1
C9	* D1	C117	* F4	E2	F3	L5	* G4	R65	* G2	R174	G1	RB37	* E2
C10	* D2	C118	F4	E3	* A3	L10	F3	R66	* G2	R175	* G1	RB38	* E2
C11	* D1	C119	F4	E4	* F1	L11	* F3	R67	* G2	R176	* G1	RB39	* F3
C12	* E1	C120	F4					R68	* G2	R177	* G1	RB40	* E3
C13	* E1	C121	F4	FB1	F2	LA300	C4	R69	F2	R178	* G1		
C14	* E1	C122	E4	FB2	G2			R70	F3	R179	* G1	RV1	G2
C15	* D1	C123	E4	FB3	B1	Q1	* G2	R71	G2	R180	F2	RV2	F4
C16	* C1	C124	E4	FB4	F2	Q2	G2	R72	* G2	R181	E1	RV3	E3
C17	* C1	C125	E4	FB10	* G4	Q3	G2	R73	F3	R182	* G1		
C18	* D1	C126	E4	FB11	* G4	Q4	* G2	R74	F3	R183	* G1	S1	A1
C19	* D1	C127	* E4	FB12	F4	Q5	* F3	R75	F3	R184	* G2		
C20	B1	C128	F4	FB13	F4	Q6	* F3	R76	F3	R185	G2	TP1	F2
C21	* B1	C129	F4	FB14	F4	Q7	* F3	R77	F3	R193	E4	TP2	F3
C22	E2	C130	F4	FB15	F4	Q8	* F3	R78	* F3	R194	* E4	TP3	F3
C23	* E1	C131	F4	FB16	* E4	Q9	* G4	R79	* F3	R195	* E4	TP4	F4
C24	A1	C132	F2			Q10	* G4	R80	* F3	R196	* E4	TP5	B1
C25	* A3	C133	F4	IC1	* C1	Q11	G3	R81	* F3	R200	C1	TP7	B4
C26	* A3	C134	* E4	IC2	* D1	Q12	G3	R82	* G3	R201	D3	TP102	F4
C27	* B3	C135	* E4	IC3	* B1	Q13	G3	R83	* F3	R202	D3		
C28	* B2	C140	* E4	IC5	C2	Q14	* G3	R84	F3	R204	* B4	* : B Side	
C29	* B2	C141	* E3	IC6	E2	Q15	* E3	R85	F3	R205	* B4		
C30	E2	C142	* E4	IC7	E1	Q16	* E4	R86	F3	R206	* B4		
C31	* C2	C143	G2	IC8	E2	Q17	* E4	R87	G3	R207	D4		
C32	C3	C144	* G2	IC9	F2	Q18	E4	R90	* G2	R208	D3		
C33	D3	C145	* G2	IC10	F2	Q19	* E4	R91	* G2	R209	D3		
C34	D2	C146	F3	IC11	* B1	Q20	* E4	R92	G2	R210	C3		
C35	E2	C147	F2	IC12	* D1	Q21	* E4	R93	E1	R211	C3		
C36	E2	C148	F2	IC13	E2	Q22	E4	R94	G2	R212	C3		
C37	* B2	C149	* G2	IC14	* B3	Q23	F4	R96	G2	R213	C4		
C38	* B2	C150	E3	IC15	* B2	Q24	E4	R98	* G2	R214	D4		
C39	* B2	C151	E4	IC16	* B2	Q27	G1	R100	G3	R215	D4		
C40	* B2	C153	D3	IC17	* B3	Q28	G1	R101	G3	R216	C4		
C42	* E2	C154	D3	IC18	D2	Q29	* G2	R102	G4	R217	C4		
C43	* E2	C155	D4	IC19	D2	Q30	* G3	R103	G3	R220	A4		
C50	F2	C156	D3	IC21	* F2	Q31	* F2	R104	G3	R221	A4		
C51	F2	C157	C4	IC22	F3	Q32	F4	R105	* G3	R222	A3		
C54	F2	C158	C4	IC23	G4	Q34	* E4	R106	* G3	R223	B4		
C55	F2	C159	B4	IC24	G4	Q35	* E3	R107	G3	R224	* B4		
C56	F3	C160	B4	IC25	* G3	Q36	* F3	R108	* G3	R225	* B4		
C57	G2	C161	A4	IC27	B2	Q57	F3	R109	* G3	R226	B4		
C58	F2	C162	A3	IC28	E4	Q58	F3	R110	* E1	R230	* C4		
C59	F2	C163	A3	IC29	* F4	Q66	* F3	R111	* G4	R231	* C4		
C60	F2	C164	* B4	IC30	D4	Q88	* G2	R112	G4	R232	* C4		
C61	F2	C165	* B4	IC31	E3			R113	* G4	R233	* D4		
C62	F2	C166	A4	IC33	D3	R1	* D1	R114	* G4	R234	* C3		
C63	F2	C167	* C4	IC34	D3	R2	* D1	R115	* F4	R238	* C4		
C64	* G2	C168	* D3	IC35	* B4	R3	* D1	R117	* F4	R239	* C4		
C65	* G2	C169	* D3	IC36	* B4	R4	* B1	R118	* F4	R240	C1		
C66	F2	C170	D3	IC37	* B4	R5	C1	R119	F4	R241	C1		
C67	F2	C171	* C4	IC38	C4	R6	* C1	R120	F4	R242	C3		
C68	F2	C172	* C4	IC39	C4	R8	* B2	R121	* F4	R243	* D3		
C69	G2	C173	* C2	IC40	C4	R9	* B2	R122	* F4	R250	D3		
C70	F3	C174	* C3	IC41	C4	R10	* B3	R123	* F4	R300	E3		
C71	F3	C175	* D2	IC42	* B4	R11	* B3	R124	* F4	R301	* E3		
C72	F3	C176	* D2	IC43	B4	R12	* B3	R125	* F4				
C73	* F3	C177	* C2	IC44	B4	R13	* B3	R126	* F4	RB1	* C1		
C74	* F3	C178	* G3	IC45	A4	R14	C3	R127	* E4	RB2	* C1		
C75	* F3	C179	* D4	IC46	A4	R15	C2	R128	* E4	RB3	C1		
C76	F3	C180	* G3	IC48	* A4	R16	* A3	R129	* E4	RB4	C1		
C77	F3	C200	* F1	IC49	* A4	R17	* A3	R130	* E4	RB5	* C1		
C78	F3	C201	* G1	IC50	* A4	R18	C3	R131	E4	RB6	* C1		
C80	G2	C202	G1	IC52	A4	R19	C3	R132	E4	RB7	* C1		
C81	* G2	C203	* G1	IC53	* C4	R20	D2	R133	* E4	RB8	C1		
C82	G2	C204	* G1	IC54	* D3	R21	D2	R134	E4	RB9	* C1		
C83	G2	C205	* G1	IC55	* C3	R22	* B3	R135	* E4	RB10	* C1		
C90	G3	C206	* G1	IC56	* C3	R28	* B2	R136	E4	RB11	* C1		
C91	* G3	C207	G1	IC57	* D2	R29	C2	R137	E4	RB12	* B1		
C92	* G3	C208	* G1	IC58	* E2	R30	C3	R138	* E4	RB13	* B1		
C94	* G4	C209	* G1	IC59	* C2	R36	C3	R139	* E4	RB14	B1		
C95	* G4	C210	* G1	IC60	D3	R37	C3	R140	* E4	RB15	B1		
C96	* G4	C211	* E1	IC61	* A4	R38	C3	R141	* E4	RB16	* B1		
C97	* G4	C212	* E4	IC62	* E1	R39	D3	R142	* E4	RB17	* E1		
C98	F4	C300	B1	IC63	* E1	R40	C3	R143	* E4	RB18	* F1		
C99	* G4	C301	* B1	IC64	* F1	R41	D3	R144	* E4	RB19	* E1		
C100	* G4	C302	B1	IC65	G1	R42	D3	R145	E4	RB20	* F1		
C101	F4	C303	* A1	IC66	G1	R43	D3	R146	E4	RB21	D4		
C102	F4			IC67	* G1	R45	D2	R147	* E4	RB22	D4		
C103	F4	CN1	D1	IC68	F2	R50	* E2	R148	* E4	RB23	D4		
C104	F4	CN2	G3	IC69	F4	R51	* E2	R149	E1	RB24	D4		
C105	F4	CN3	E4	IC70	E3	R52	* E1	R150	* E4	RB25	* E3		
C106	F4	CN4	G4	IC71	* F3	R53	* E1	R151	F3	RB26	B4		
C107	F4	CN6	F4	IC72	* E3	R54	* G2	R158	F3	RB27	B4		
C108	F4			IC77	* E4	R55	* G2	R159	F3	RB28	B4		

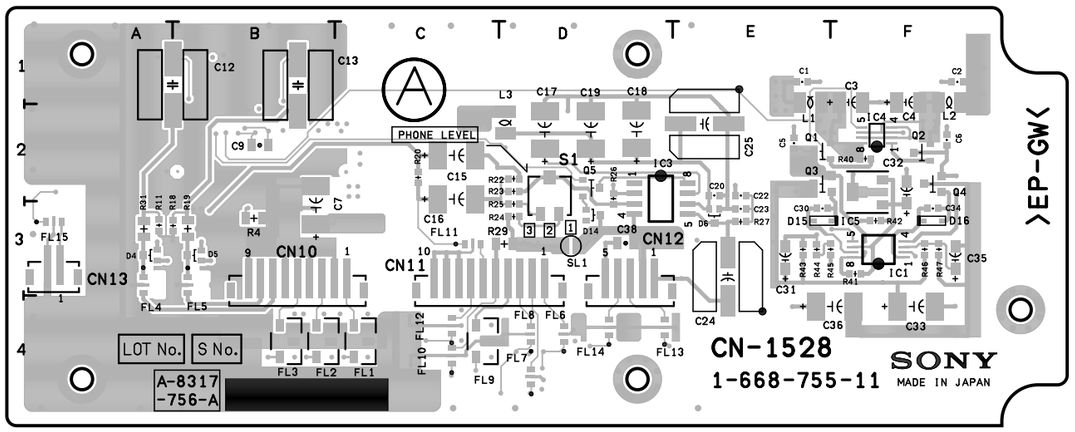


CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

DIF-67 - A SIDE -
1-668-762-11

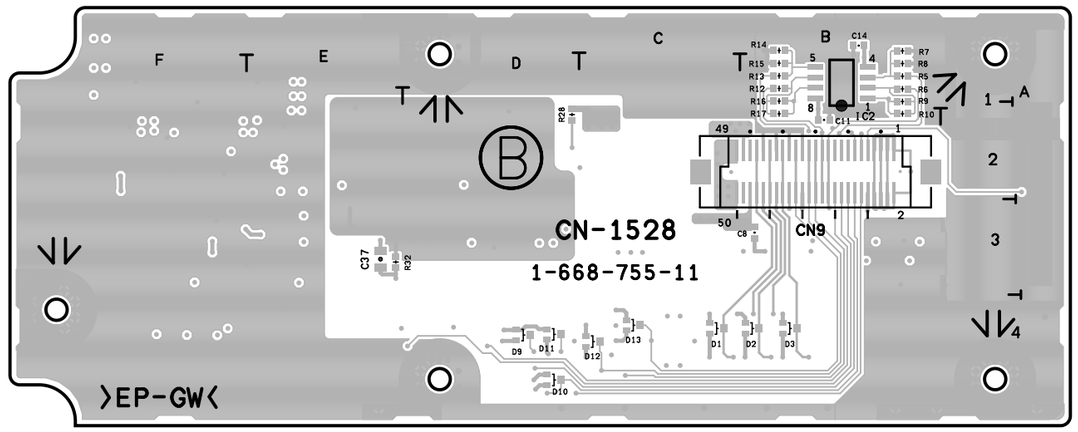


DIF-67 - B SIDE -
1-668-762-11



CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

CN-1528 - A SIDE -
1-668-755-11

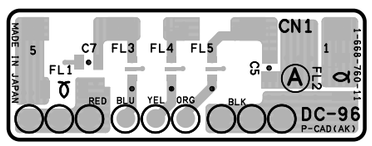


CN-1528 - B SIDE -
1-668-755-11

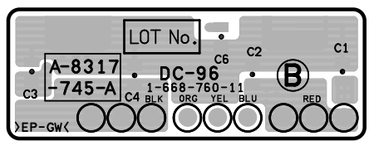
CN-1528 (1-668-755-11)

C1	E1	C22	E2	D1	* C4	FL5	B3	L2	F1	R14	* B1	R42	F3
C2	F1	C23	E3	D2	* B4	FL6	D4	L3	D2	R15	* B1	R43	E3
C3	F1	C24	E3	D3	* B4	FL7	D4			R16	* B1	R44	E3
C4	F1	C25	E2	D4	A3	FL8	D4	Q1	E2	R17	* B2	R45	F3
C5	E2	C30	E3	D5	B3	FL9	C4	Q2	F2	R18	B3	R46	F3
C6	F2	C31	E3	D6	E3	FL10	C4	Q3	E2	R19	B3	R47	F3
C7	B3	C32	F2	D9	* D4	FL11	C3	Q4	F2	R20	C2		
C8	* B3	C33	F4	D10	* D4	FL12	C4	Q5	D2	R22	D2	S1	D2
C9	B2	C34	F3	D11	* D4	FL13	D4			R23	D2		
C11	* B2	C35	F3	D12	* C4	FL14	D4	R4	B3	R24	D3	* : B Side	
C12	B1	C36	F4	D13	* C4	FL15	A3	R5	* B1	R25	D3		
C13	B1	C37	* E3	D14	D3			R6	* B1	R26	D2		
C14	* B1	C38	D3	D15	E3	IC1	F3	R7	* B1	R27	E3		
C15	C2			D16	F3	IC2	* B1	R8	* B1	R28	* D2		
C16	C2	CN9	* B2			IC3	D2	R9	* B1	R29	D3		
C17	D2	CN10	B3	FL1	C4	IC4	F2	R10	* B2	R31	A3		
C18	D2	CN11	C3	FL2	B4	IC5	F2	R11	A3	R32	* E3		
C19	D2	CN12	D3	FL3	B4			R12	* B1	R40	F2		
C20	E2	CN13	A3	FL4	A3	L1	E1	R13	* B1	R41	F3		

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

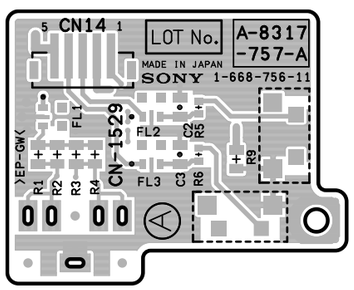


DC-96 - A SIDE -
1-668-760-11

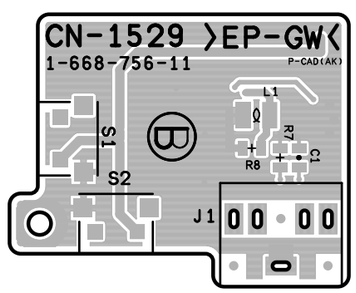


DC-96 - B SIDE -
1-668-760-11

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

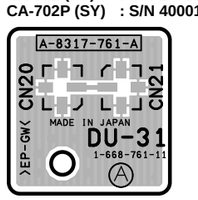


CN-1529 - A SIDE -
1-668-756-11



CN-1529 - B SIDE -
1-668-756-11

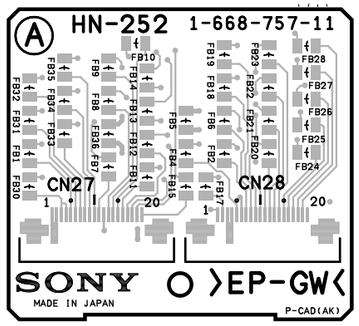
CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



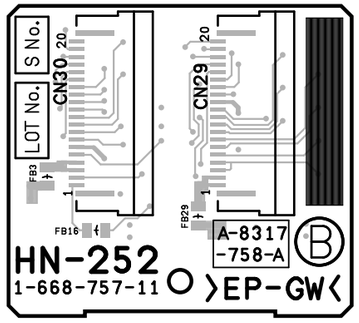
DU-31 - A SIDE -
1-668-761-11

DU-31 - B SIDE -
1-668-761-11

CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

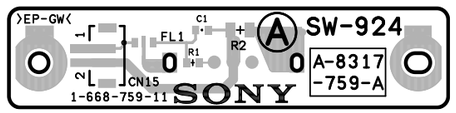


HN-252 - A SIDE -
1-668-757-11

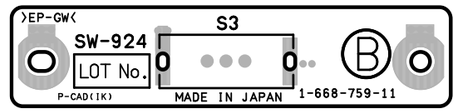


HN-252 - B SIDE -
1-668-757-11

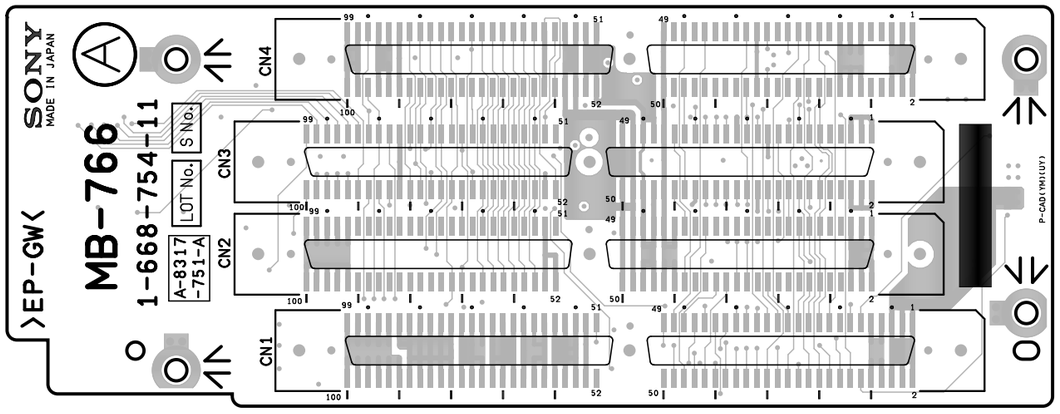
CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher



SW-924 - A SIDE -
1-668-759-11

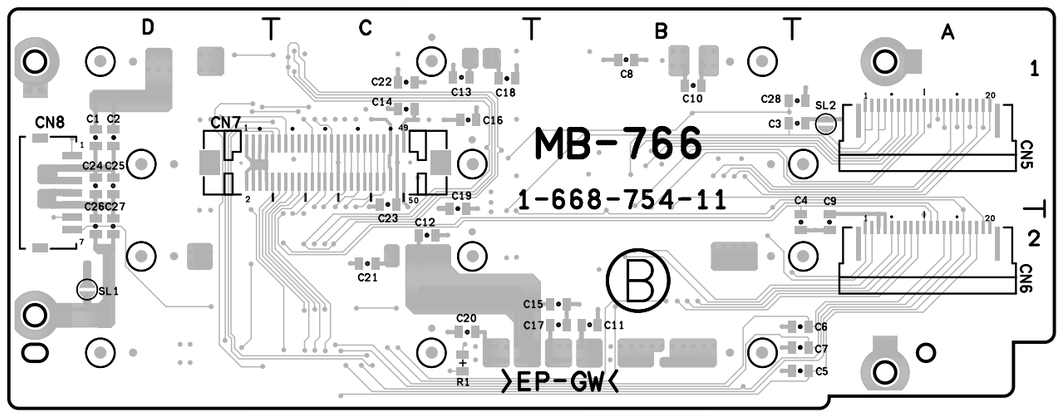


SW-924 - B SIDE -
1-668-759-11

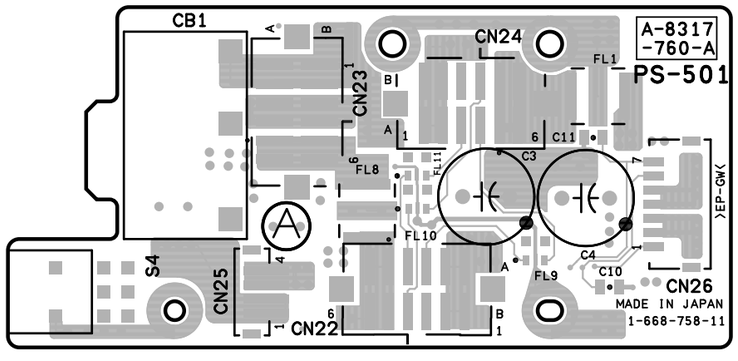


CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

MB-766 - A SIDE -
1-668-754-11

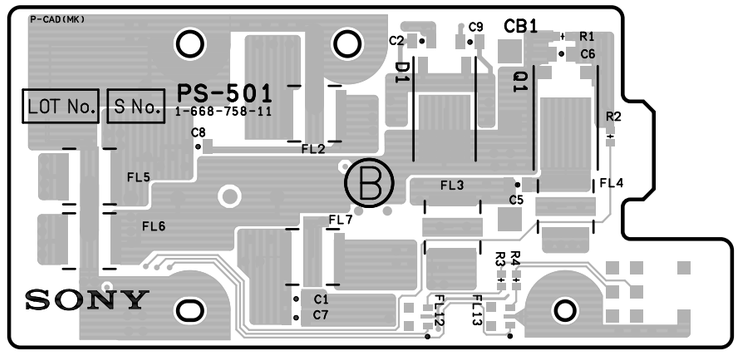


MB-766 - B SIDE -
1-668-754-11



CA-702 (SY) : S/N 10001 and higher
CA-702P (SY) : S/N 40001 and higher

PS-501 - A SIDE -
1-668-758-11



PS-501 - B SIDE -
1-668-758-11

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